

# FORD **TRANSIT** Owner's Manual



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# Introduction

## ABOUT THIS MANUAL

Thank you for choosing Ford. We recommend that you take some time to get to know your vehicle by reading this manual. The more that you know about it, the greater the safety and pleasure you will get from driving it.

### WARNING



Always drive with due care and attention when using and operating the controls and features on your vehicle.

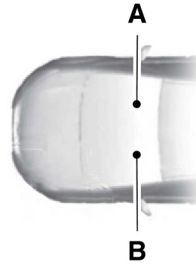
**Note:** This manual describes product features and options available throughout the range, sometimes even before they are generally available. It may describe options not fitted to your vehicle.

**Note:** Some of the illustrations in this manual may be used for different models, so may appear different to your vehicle. However, the essential information in the illustrations is always correct.

**Note:** Always use and operate your vehicle in line with all applicable laws and regulations.

**Note:** Pass on this manual when selling your vehicle. It is an integral part of the vehicle.

This manual may qualify the location of a component as left-hand side or right-hand side. The side is determined when facing forward in the seat.



E154903

- A Right-hand side
- B Left-hand side

## Protecting the Environment

You must play your part in protecting the environment. Correct vehicle usage and the authorised disposal of waste, cleaning and lubrication materials are significant steps toward this aim.

## SYMBOLS GLOSSARY

### Symbols in this handbook

#### WARNING



You risk death or serious injury to yourself and others if you do not follow the instructions highlighted by the warning symbol.

#### CAUTION



You risk damaging your vehicle if you do not follow the instructions highlighted by the caution symbol.

### Symbols on your vehicle



# Introduction

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When you see these symbols, read and follow the relevant instructions in this handbook before touching or attempting adjustment of any kind.

## REPLACEMENT PARTS RECOMMENDATION

Your vehicle has been built to the highest standards using quality parts. We recommend that you demand the use of genuine Ford and Motorcraft parts whenever your vehicle requires scheduled maintenance or repair. You can clearly identify genuine Ford and Motorcraft parts by looking for the Ford, FoMoCo or Motorcraft branding on the parts or their packaging.

### Scheduled Maintenance and Mechanical Repairs

One of the best ways for you to make sure that your vehicle provides years of service is to have it maintained in line with our recommendations using parts that conform to the specifications detailed in this Owner's Manual. Genuine Ford and Motorcraft parts meet or exceed these specifications.

### Collision Repairs

We hope that you never experience a collision, but accidents do happen. Genuine Ford replacement collision parts meet our stringent requirements for fit, finish, structural integrity, corrosion protection and dent resistance. During vehicle

development we validate these parts deliver the intended level of protection as a whole system. A great way to know for sure you are getting this level of protection is to use genuine Ford replacement collision parts.

### Warranty on Replacement Parts

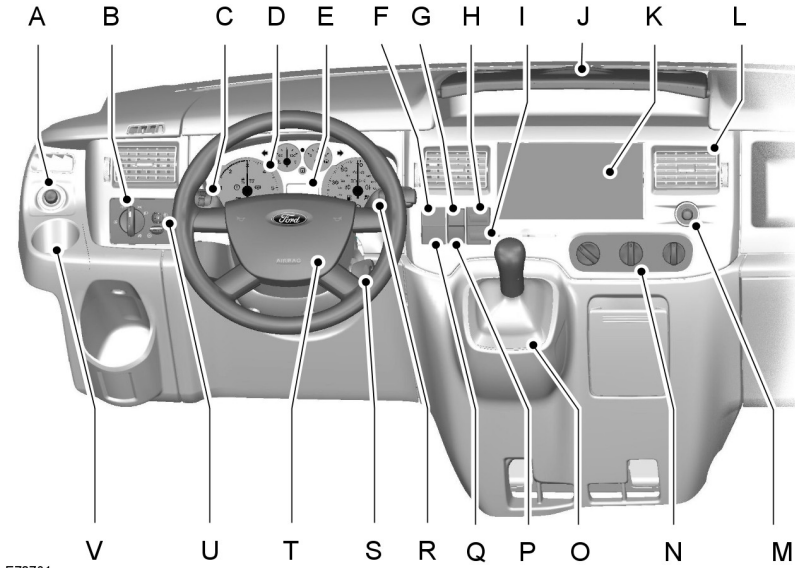
Genuine Ford and Motorcraft replacement parts are the only replacement parts that benefit from a Ford Warranty. Damage caused to your vehicle as a result of the failure of non-Ford parts may not be covered by the Ford Warranty. For additional information, refer to the terms and conditions of the Ford Warranty.

## SPECIAL NOTICES

If converting or modifying your Transit vehicle from production specification, refer to the Body and Equipment Mounting Manual (BEMM) at [www.etis.ford.com/fordservice](http://www.etis.ford.com/fordservice)

# At a Glance

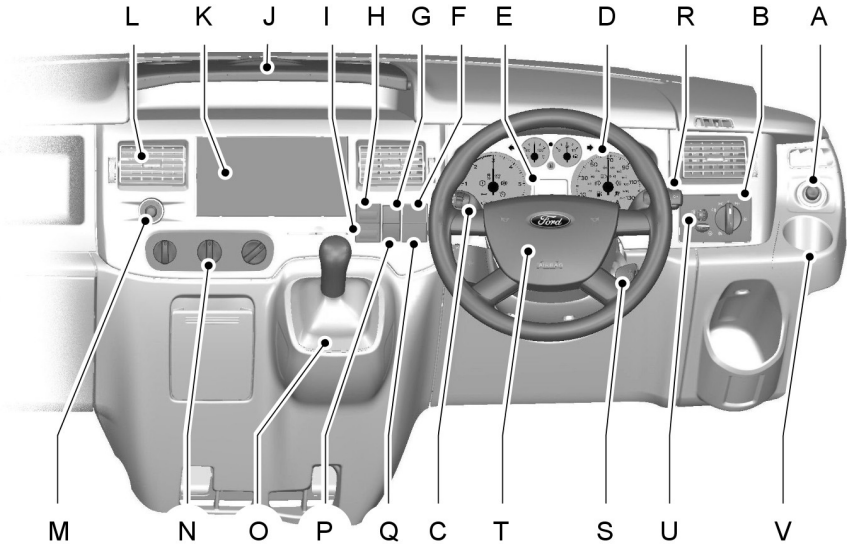
## Instrument panel overview - left-hand drive



E70781

# At a Glance

## Instrument panel overview - right-hand drive



E76166

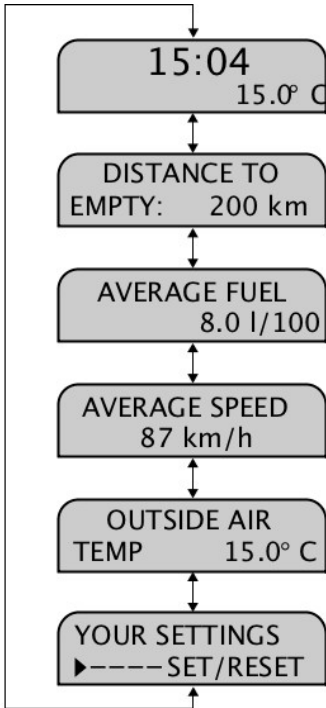
- A Electric exterior mirror switch. See **Electric exterior mirrors** (page 48).
- B Lighting control. See **Lighting Control** (page 34).
- C Multifunction lever. See **Direction Indicators** (page 36). See **Lighting Control** (page 34).
- D Instrument cluster. See **Gauges** (page 50).
- E Information display. See **Gauges** (page 50).
- F ECO switch. See **Start-Stop** (page 84). See **Automatic speed limiter (ASL)** (page 106).
- G Hazard warning flasher switch. See **Hazard Warning Flashers** (page 36).
- H Heated windscreen switch. See **Heated Windows and Mirrors** (page 68).
- I Heated rear window switch. Heated exterior mirrors switch. See **Heated Windows and Mirrors** (page 68).
- J Tray with cup holders. See **Cup Holders** (page 78).
- K Audio unit. See separate handbook.
- L Air vents. See **Air Vents** (page 65).

## At a Glance

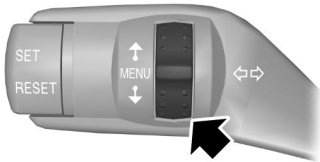
- M Cigar lighter. See **Cigar Lighter** (page 77).
- N Climate controls. See **Climate Control** (page 65).
- O Gear lever. See **Manual Transmission** (page 93).
- P Passenger airbag deactivation warning lamp. See **Disabling the passenger airbag** (page 19).
- Q All wheel drive (AWD) switch. See **All-Wheel Drive** (page 93). Stability control (ESP) switch. See **Stability Control** (page 95).
- R Wiper lever. See **Wipers and Washers** (page 31).
- S Ignition switch.
- T Horn.
- U Headlamp levelling control. See **Headlamp Levelling** (page 36).
- V Cup holder. See **Cup Holders** (page 78).

# At a Glance

## Information displays

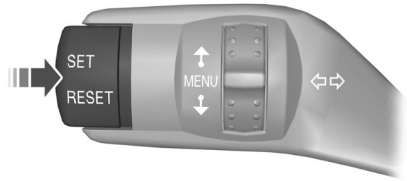


E73982



E73265

Use the rotary control to scroll through the menu.



E73266

Press the **SET and RESET** button to select a sub-menu or the item that you want to adjust.

See **Information Displays** (page 57).

## Warning lamps and indicators



Brake pad wear warning lamp



Brake system warning lamp



Cruise control indicator



Hill start assist indicator



Message indicator lamp



Stability control (ESP) and traction control warning lamp



Service interval indicator lamp (vehicles with a diesel engine)



Shift indicator



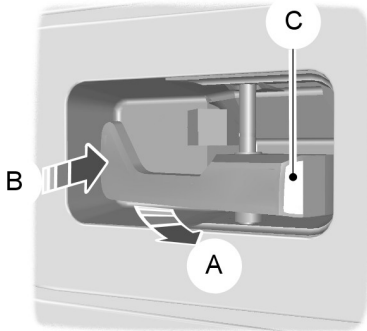
Water-in-fuel indicator lamp (vehicles with a diesel engine)

# At a Glance

See **Warning Lamps and Indicators**  
(page 52).

## Locking and unlocking

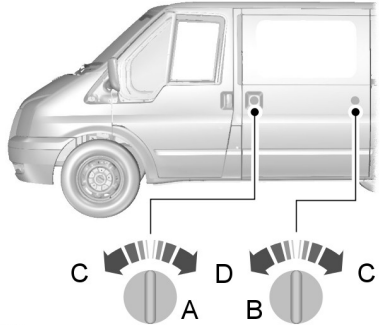
### Rear doors



E71287

- A Unlock or open
- B Lock
- C White visible, door locked

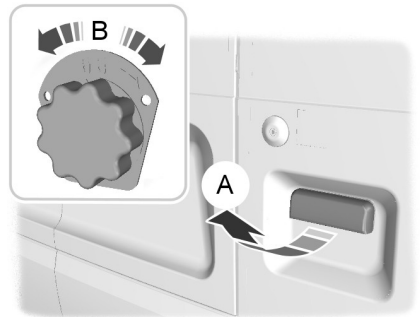
### Sliding door



E71289

- A Van and Kombi
- B Bus
- C Lock
- D Unlock

### Double rear doors

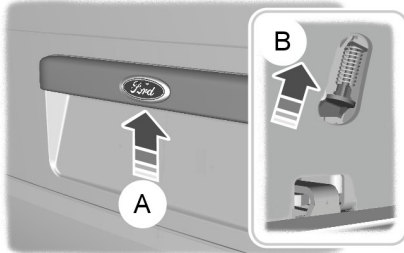


E71290

- A Outside
- B Inside

# At a Glance

## Tailgate



E71292

- A Outside
- B Inside

## Locking system operation

The locking system of your vehicle may have been configured to operate in one of three main lock operation combinations.

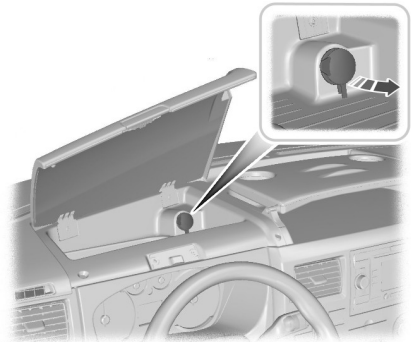
See **Locking and Unlocking** (page 22).

## Auxiliary Power Points

### WARNING



If used when the engine is not running, the battery will discharge. There may be insufficient power to restart your engine.



E69125

See **Auxiliary Power Points** (page 78).

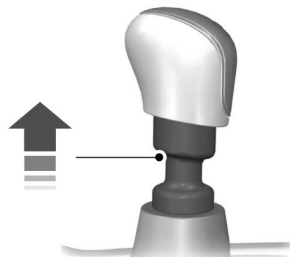
## Engine idle speed after starting

The engine may idle at a higher speed than normal immediately after starting from cold.

See **Starting and Stopping the Engine** (page 81).

## Manual transmission

### Selecting reverse gear



E99067

On some vehicles it is necessary to raise the collar whilst selecting reverse gear.

See **Manual Transmission** (page 93).

# At a Glance

## Diesel particulate filter (DPF)

### WARNING



Do not park or idle your vehicle over dry leaves, dry grass or other combustible materials. The DPF regeneration process creates very high exhaust gas temperatures and the exhaust will radiate a considerable amount of heat during and after DPF regeneration, and after you have switched the engine off. This is a potential fire hazard.

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See **Diesel Particulate Filter** (page 82).

# Occupant protection

## PRINCIPLE OF OPERATION

### Airbags

#### WARNINGS

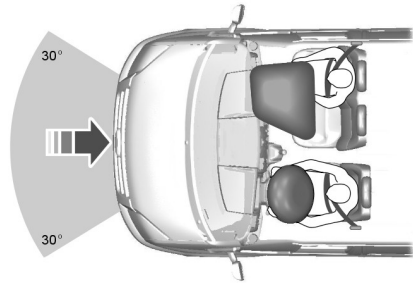
-  Do not modify the front of your vehicle in any way. This could adversely affect deployment of the airbags.
-  Original text according to ECE R94.01: Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!
-  Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect. See **Sitting in the Correct Position** (page 72).
-  Have repairs to the steering wheel, steering column, seats, airbags and seat belts carried out by properly trained technicians.
-  Keep the areas in front of the airbags free from obstruction. Do not affix anything to or over the airbag covers.
-  Do not poke sharp objects into areas where airbags are fitted. This could damage and adversely affect deployment of the airbags.
-  Use seat covers designed for seats with side airbags. Have these fitted by properly trained technicians.

**Note:** You will hear a loud bang and see a cloud of harmless powdery residue if an airbag deploys. This is normal.

**Note:** The front passenger airbag protects both positions of a double seat.

**Note:** Only wipe airbag covers with a damp cloth.

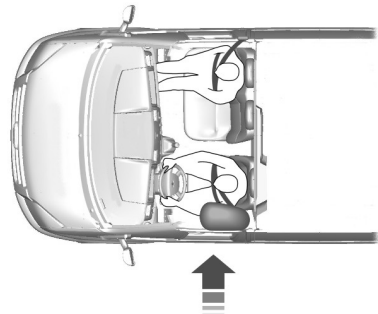
### Driver and front passenger airbags



E68581

The driver and front passenger airbags will deploy during significant frontal collisions or collisions that are up to 30 degrees from the left or the right. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus cushioning forward body movement. During minor frontal collisions, overturns, rear collisions and side collisions, the driver and front passenger airbags will not deploy.

### Side airbags



E68905


Side airbags are fitted inside the seatback of the front seats. A label indicates that side airbags are fitted to your vehicle.


# Occupant protection


The side airbags will deploy during significant lateral collisions. Only the airbag on the side affected by the collision will deploy. The airbags will inflate within a few thousandths of a second and deflate on contact with the occupants, thus providing protection for the head and rib areas. During minor lateral collisions, overturns, front collisions and rear collisions, the side airbags will not deploy.


## Seat belts


### WARNINGS


 Wear a seat belt and keep sufficient distance between yourself and the steering wheel. Only when you use the seat belt properly, can it hold you in a position to achieve its optimum effect. See **Sitting in the Correct Position** (page 72).

 Use a seat belt for only one person.

 Use the correct buckle for each seat belt.

 Do not use a seat belt that is slack or twisted.


 Do not wear thick clothing. The seat belt must fit tightly around your body to achieve its optimum effect.

 Position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

Seat belt pretensioners have a lower deployment threshold than the airbags. During minor collisions, it is possible that only the seat belt pretensioner will deploy.

## Status after a collision

### WARNING

 Seat belts subjected to strain, as a result of an accident, should be renewed and the anchorages checked by a properly trained technician.

## FASTENING THE SEAT BELTS



E68584



E68585

# Occupant protection


## SEAT BELT HEIGHT ADJUSTMENT

### Front seat belt



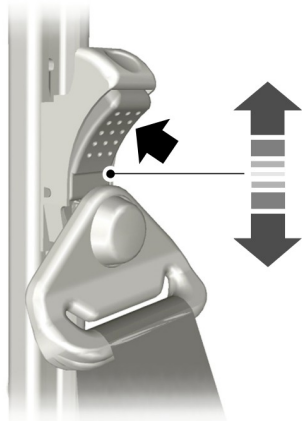
E68586

#### WARNING

 Insert the tongue into the buckle until you hear a distinct click. You have not fastened the seat belt properly if you do not hear a click.

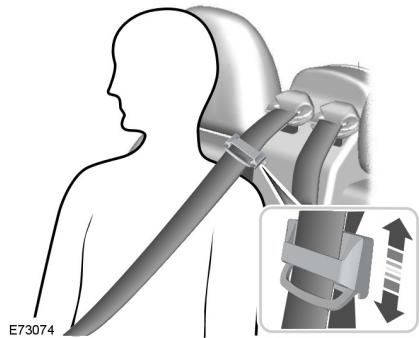
Pull the seat belt out steadily. It may lock if you pull it sharply or if the vehicle is on a slope.

Press the red button on the buckle to release the seat belt. Let it retract completely and smoothly.




E68901

### Rear seat belt



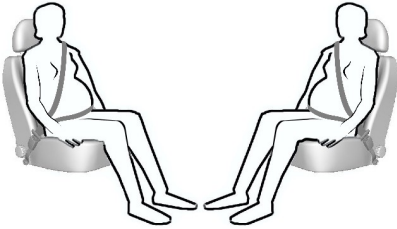
E73074

#### WARNING

 Make sure that the seat belt runs smoothly through the guide.

# Occupant protection

## USING SEAT BELTS DURING PREGNANCY



E68587

### WARNING



Position the seat belt correctly for your safety and that of your unborn child. Do not use only the lap strap or the shoulder strap.

Position the lap strap comfortably across your hips and low beneath your pregnant abdomen. Position the shoulder strap between your breasts, above and to the side of your pregnant abdomen.

## DISABLING THE PASSENGER AIRBAG

### WARNING



To avoid the risk of death or serious injury, **NEVER** use a rearward facing child restraint in the front, unless the airbag is **OFF**.

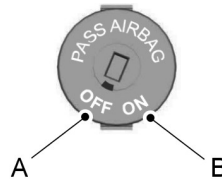


E71313

The key switch and the airbag deactivation lamp are located in the instrument panel.

If the airbag warning lamp in the instrument cluster illuminates intermittently, it means that there is a malfunction. Remove the child restraint from the front. Have the system checked by a suitably trained technician for your own safety. See **Warning Lamps and Indicators** (page 52).

## Disabling the passenger airbag



E71312

To use a child restraint in the front, make sure that the key switch is turned to position **A**.

When you switch the ignition on, check that the passenger airbag deactivation warning lamp comes on. See **At a Glance** (page 9).

# Occupant protection

---

## Enabling the passenger airbag

### WARNING



For the adult restraint system to perform as intended, make sure that the airbag is **ON**.

---



After removing the child restraint from the front, make sure that you turn the key switch to position **B**.

# Keys and Remote Controls

---

## GENERAL INFORMATION ON RADIO FREQUENCIES

### CAUTIONS

-  The radio frequency used by your remote control can also be used by other short distance radio transmissions (e.g. amateur radios, medical equipment, wireless headphones, remote controls and alarm systems). If the frequencies are jammed, you will not be able to use your remote control. You can lock and unlock the doors with the key.
-  Check your vehicle is locked before leaving it unattended. This will safeguard against any potential malicious frequency blocking.

---

**Note:** *You could unlock the doors if you press the buttons on the remote control unintentionally.*

The operating range between your remote control and your vehicle varies depending on the environment.

## PROGRAMMING THE REMOTE CONTROL

You can programme a maximum of eight remote controls to use with your vehicle (including any supplied with your vehicle). Ask your dealer for instructions.

# Locks

## LOCKING AND UNLOCKING

### Double locking

#### WARNING

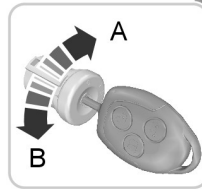
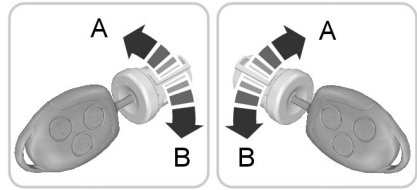


Do not activate double locking when persons or animals are inside the vehicle. You will not be able to unlock the doors from the inside if you have double locked them.

Double locking is a theft protection feature that prevents someone from opening the doors from the inside. You can only double lock the doors if they are all closed. If you try to double lock the doors when a door is still open, you may hear a short tone from the horn and the locks will cycle. The door locks will return to their previous state.

If you have double locked the doors successfully, the direction indicators will flash **twice**. If the hazard warning flashers are on, the direction indicators will give two long flashes.

### Locking and unlocking the doors with the key



E71294

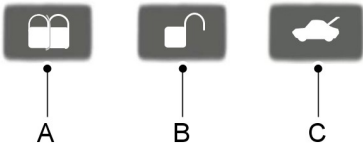
- A Unlock
- B Lock

### Double locking the doors with the key

Turn the key to the unlock position and then to the lock position to double lock the doors.

# Locks

## Locking and unlocking the doors with the remote control



E71293

- A Lock
- B Unlock
- C Cargo unlock

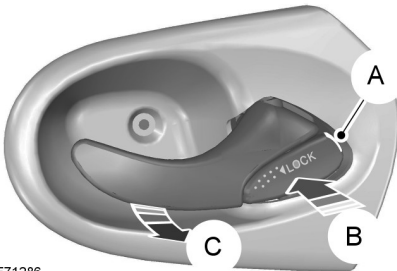
Press the appropriate button **once**.

## Double locking the doors with the remote control

Press the lock button **twice**.

## Locking and unlocking the doors with the handles

### Front doors

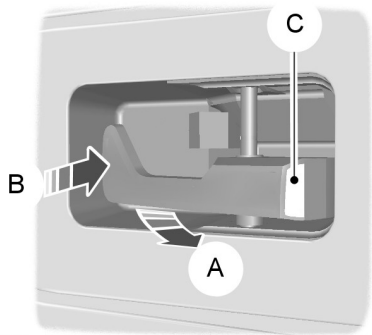


E71286

- A White mark
- B Lock
- C Unlock

If you see the white mark, the door is locked.

### Rear doors

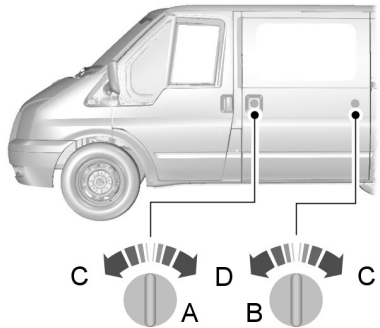


E71287

- A Unlock or open
- B Lock
- C White mark

If you see the white mark, the door is locked.

### Sliding door



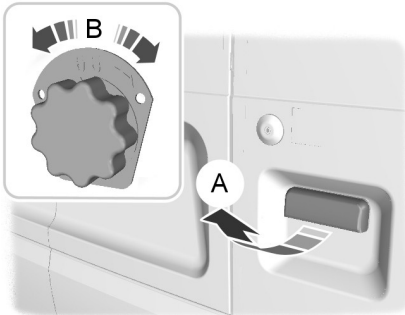
E71289

- A Van and Kombi
- B Bus

# Locks

- C Lock
- D Unlock

## Double rear doors



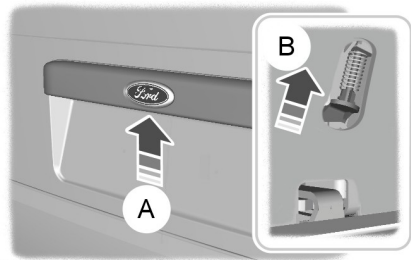
E71290

- A Outside
- B Inside



E71291

## Tailgate



E71292

- A Outside
- B Inside

Access the release button through the aperture at the bottom of the tailgate.

## Slam locking

**Note:** Do not leave your keys in the vehicle.

**Note:** You may hear a short tone from the horn if you try to lock the doors when a door is still open.

Slam locking allows you to lock a door with the key or remote control with the door open. The door will be locked when it is closed.

## Automatic locking

Your vehicle has the capability for the doors to lock automatically when you exceed 8 km/h (5 mph). Your dealer can enable or disable this function if required. If this function is enabled, to unlock the rear or side load doors, switch the ignition off and use the key or remote control.

# Locks

## Automatic re-locking

The doors will re-lock automatically if you do not open a door within 45 seconds of unlocking the doors with the remote control. The door locks and the alarm will return to their previous state.

## One-stage unlocking

**Note:** *The direction indicators will flash once when you unlock the doors.*

When enabled, the following features are available:

You will unlock all of the doors when you:

- Pull either interior handle (except if you have double locked the doors).
- Turn the key in either of the door locks.
- Press the unlock button on the remote control **once**.
- Press the cargo unlock button on the remote control **once** (Chassis Cab).

You will unlock the rear doors or tailgate and the sliding door if you press the cargo unlock button **once**.

## Two-stage unlocking

**Note:** *The direction indicators will flash once when you unlock the doors.*

You will unlock the front doors when you:

- Pull either interior handle (except if you have double locked the doors).
- Turn the key in either of the door locks.
- Press the unlock button on the remote control **once** (Van, Bus and Kombi).

You will unlock the driver side door when you:

- Press the unlock button on the remote control **once** (Chassis Cab).

You will unlock the front doors, rear doors and loadspace doors when you:

- Turn the key in either of the front door locks **twice** within three seconds.
- Press the unlock button on the remote control **twice** within three seconds.

On Van vehicles, you will unlock the rear doors or tailgate and the sliding door if you press the cargo unlock button **once**.

On Chassis Cab vehicles, you will unlock the passenger side door if you press the cargo unlock button **once**.

## Zone re-locking

The locks on Van, Bus and Kombi are split into two zones, cabin and cargo. Chassis Cab has only the cabin zone.

- Exit the vehicle and press the lock button.
- Press the unlock button or the cargo unlock button once to open the respective zone.

If you now open a door within the unlocked zone, the other doors in that zone will automatically lock.

## Configurable unlocking

Configurable unlocking is set at the time of vehicle purchase and allows you to select which doors unlock when the unlock and cargo unlock buttons on the remote control are pressed once or twice. If you have this feature deactivated, it can not be reactivated. Ask your dealer for further information.

# Engine immobiliser

---

## PRINCIPLE OF OPERATION

The engine immobiliser is a theft protection system that prevents someone from starting the engine with an incorrectly coded key.

## CODED KEYS

**Note:** *Do not shield your keys with metal objects. This may prevent the receiver from recognising your key as a valid one.*

**Note:** *Have all of your remaining keys erased and recoded if you lose a key. Ask your dealer for further information. Have replacement keys recoded together with your existing keys.*

If you lose a key, you can obtain a replacement from your Ford Dealer. If possible, provide them with the key number from the tag provided with the original keys. You can also obtain additional keys from your Ford Dealer.

## ARMING THE ENGINE IMMOBILISER

The engine immobiliser is armed automatically a short time after you have switched the ignition off.

The indicator in the instrument cluster will flash to confirm that the system is operating.

## DISARMING THE ENGINE IMMOBILISER

The engine immobiliser is disarmed automatically when you switch the ignition on with a correctly coded key.

The indicator in the instrument cluster will come on for approximately three seconds and then go out. If the indicator stays on for one minute or flashes for approximately one minute and then repeatedly at irregular intervals, your key has not been recognised. Remove the key and try again.

If you are unable to start the engine with a correctly coded key, this indicates a malfunction. Have the immobiliser checked immediately.

# Alarm

## PRINCIPLE OF OPERATION

### All vehicles

If the alarm is triggered, the alarm horns will sound for 30 seconds and the hazard warning flashers will flash for five minutes. If the cause of the alarm being triggered has been removed, the alarm will return to its previous armed state. If the cause has not been removed, the alarm horns will sound again.

### Vehicles with a perimeter alarm

The perimeter alarm is a deterrent against unauthorised access to your vehicle through the doors and the bonnet. It also protects the audio unit and the trailer (if a Ford trailer-tow kit is fitted). You can fully arm or partially arm the alarm. Trailer detection is disabled when you have partially armed the alarm.

The perimeter alarm will be triggered if someone:

- opens a door
- opens the bonnet
- attempts to start the engine with an incorrectly coded key
- removes the audio unit
- disconnects the trailer electrical connector (if it was connected at the time the alarm was armed).

### Vehicles with a category one alarm



E71401

**Note:** *False alarms can also be triggered by the auxiliary heater. See **Auxiliary Heater** (page 68). If you are using the auxiliary heater, direct the air flow towards the footwell.*

The category one alarm is additional to the perimeter alarm. Ultrasonic interior motion detection protects your vehicle against unauthorised access to the passenger compartment and the cargo area. You can fully arm or partially arm the alarm. Trailer detection and interior motion detection are disabled when you have partially armed the alarm. Interior motion detection is not activated if you arm the alarm when a door is open.

The category one alarm will only function correctly if all windows are fully closed. Keep the area in front of the motion sensors free from obstruction.

The category one alarm is triggered if:

- motion is detected in the passenger compartment or cargo area
- someone attempts to access the cargo area through the rear door or tailgate window.

## ARMING THE ALARM

### Perimeter alarm

The alarm is armed 20 seconds after you have locked the doors. This delay allows you to close any doors or the bonnet without triggering the alarm.

### Partial arming

Lock the doors with the key. See **Locking and Unlocking** (page 22).

### Full arming

Lock the doors with the remote control or double lock the doors with the key or the remote control. See **Locking and Unlocking** (page 22).

# Alarm

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## Category one alarm

### Partial arming

Lock the doors with the key. See **Locking and Unlocking** (page 22).

### Full arming

**Note:** *Do not fully arm the alarm if someone is inside the vehicle.*

Lock the doors with the remote control or double lock the doors with the key or the remote control. See **Locking and Unlocking** (page 22).

## DISARMING THE ALARM

### Perimeter alarm

Disarm and silence the alarm by unlocking the doors with the key, switching the ignition on with a correctly coded key or unlocking the doors with the remote control. See **Locking and Unlocking** (page 22).

### Category one alarm

Disarm and silence the alarm by unlocking the doors with the key in the driver's door and switching the ignition on with a correctly coded key within 12 seconds or unlocking the doors with the remote control. See **Locking and Unlocking** (page 22).

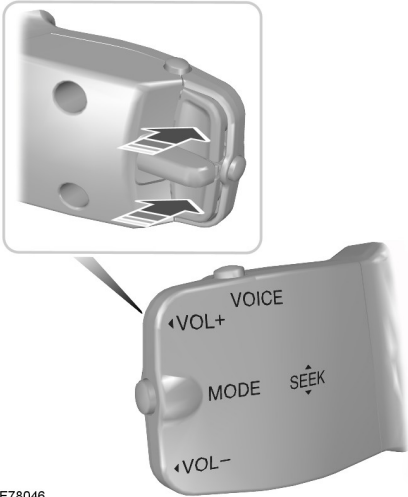
# Steering Wheel

## AUDIO CONTROL

Select radio, CD or cassette mode on the audio unit.

The following functions can be operated with the remote control:

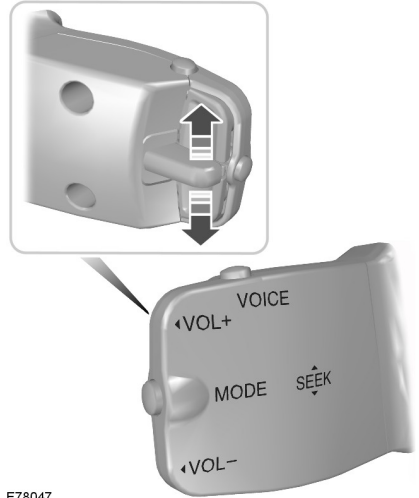
### Volume



Volume up: Press the top button on the back of the remote control.

Volume down: Press the bottom button on the back of the remote control.

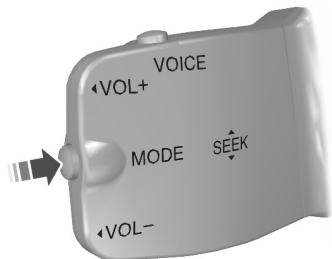
### Seek



Move the lever up or down:

- In **radio mode**, this will locate the next radio station up or down the frequency band.
- In **CD mode**, it will select the next or previous track.

### Mode



Briefly press the button on the side:

# Steering Wheel

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- In **radio mode**, this will locate the next pre-set radio station.
- In **CD mode**, this will select the next CD if a CD changer is fitted.
- In **all modes** to abort a traffic message during broadcasting.

Press and hold the button on the side:

- In **radio mode** to change the waveband.

## VOICE CONTROL



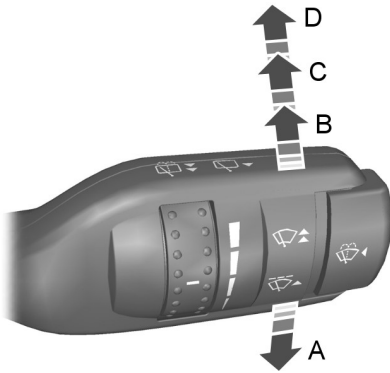
E78049

To select or deselect voice control, press the button on the top.

For further information See **Voice control** (page 211).

# Wipers and Washers

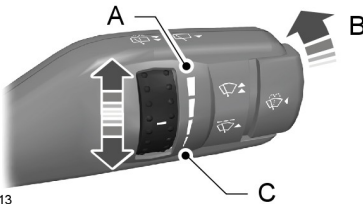
## WINDSCREEN WIPERS



E71012

- A Single wipe
- B Intermittent wipe
- C Normal wipe
- D High speed wipe

## Intermittent wipe

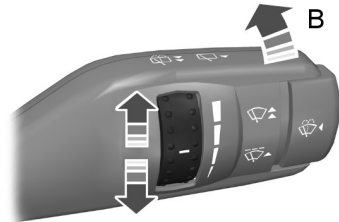


E71013

- A Long wipe interval
- B Intermittent wipe
- C Short wipe interval

## AUTOWIPERS

### Autowipers



E71014

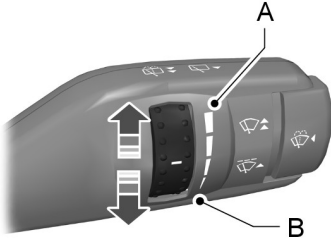
### CAUTIONS

- ! Do not switch autowipers on in dry weather conditions. The rain sensor is very sensitive and the wipers may operate if dirt, mist or flies hit the windscreen.
- ! Replace the wiper blades as soon as they begin to leave bands of water and smears. If you do not replace them, the rain sensor will continue to detect water on the windscreen and the wipers will operate, even though the majority of the windscreen is dry.
- ! Fully defrost the windscreen in icy conditions before you switch autowipers on.
- ! Switch autowipers off before you enter a car wash.

If you switch autowipers on after you have switched the ignition on, the wipers will cycle once regardless of whether the windscreen is wet or dry. The rain sensor will then continuously measure the amount of water on the windscreen and adjust the speed of the wipers automatically.

# Wipers and Washers

If you switch the ignition on with autowipers already switched on, the wipers will not cycle until the rain sensor detects water on the windscreen.



E71015

- A Low sensitivity
- B High sensitivity

Adjust the sensitivity of the rain sensor using the rotary control. If you set the control to low sensitivity, the wipers will operate when the sensor detects a lot of water on the windscreen. If you set the control to high sensitivity, the wipers will operate if the sensor detects a small amount of water on the windscreen.

## WINDSCREEN WASHERS



E71016

### WARNING



Do not operate the windscreen washers for more than 10 seconds or when the reservoir is empty.

## REAR WINDOW WIPER AND WASHERS

### Intermittent wipe



E71017

The rear window wiper will follow the windscreen wiper interval.

### Reverse gear wipe

The rear window wiper will operate automatically when you select reverse gear if the wiper lever is in position **A**, **B**, **C** or **D**.

### Rear window washer



E71018

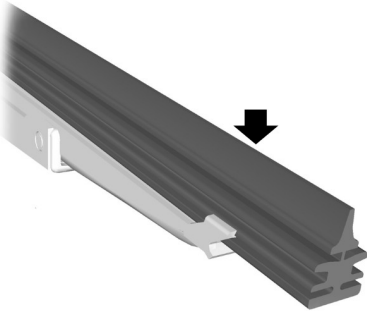
# Wipers and Washers

## WARNING



Do not operate the rear window washer for more than 10 seconds or when the reservoir is empty.

## CHECKING THE WIPER BLADES

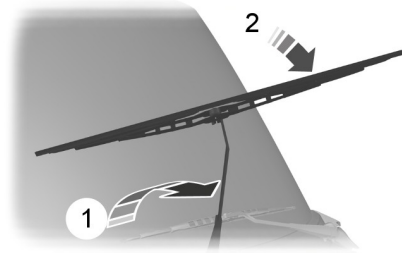


E66644

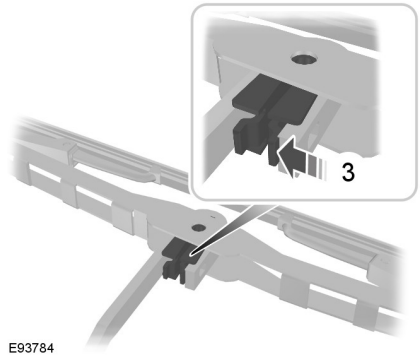
Run the tip of your fingers over the edge of the blade to check for roughness.

Clean the wiper blade lips with water applied with a soft sponge.

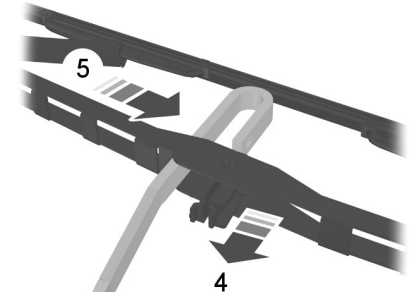
## CHANGING THE WIPER BLADES



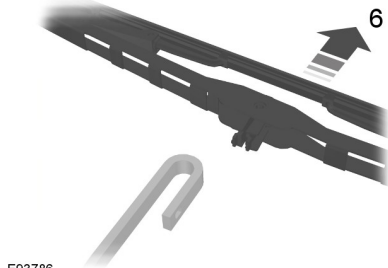
E93783



E93784



E93785



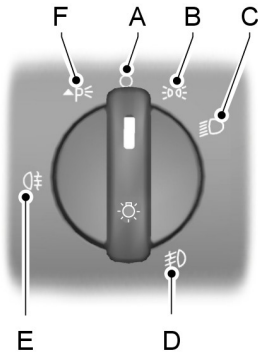
E93786

Install in the reverse order.

# Lighting

## LIGHTING CONTROL

### Lighting control positions



E71094

- A Off
- B Side and tail lamps
- C Headlamps
- D Front fog lamps
- E Rear fog lamps
- F Parking lamps

### Daytime running lamps

The headlamps will illuminate when the ignition is on and the headlamp control is in position **A**. To switch to main beam the lighting control must first be in position **C**.

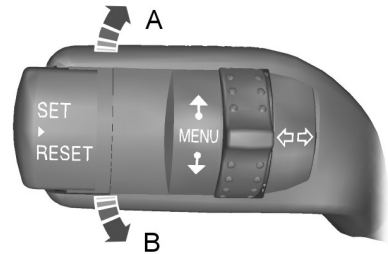
### Parking lamps

First, switch off the ignition.

### Both sides

Push the lighting control inwards and turn it to position **F**.

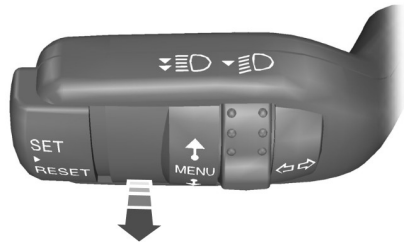
### Single side



E77368

- A Right-hand side
- B Left-hand side

### Main and dipped beam



E71095

Pull the lever fully towards the steering wheel to switch between main and dipped beam.

### Headlamp flasher

Pull the lever slightly towards the steering wheel.

# Lighting

## Home safe lighting

Switch the ignition off and pull the direction indicator lever towards the steering wheel to switch the headlamps on. You will hear a short tone. The headlamps will go off automatically after 3 minutes with any door open, or 30 seconds after the last door has been closed.

With all doors closed, but within the 30 second delay, opening any door will result in the 3 minute timer starting again.

The home safe lights can be cancelled by either pulling the direction indicator lever towards the steering wheel again or by turning the ignition switch ON.

## DAYTIME RUNNING LAMPS

The lamps will illuminate when the ignition is on.

## AUTOLAMPS

### WARNING



In severe weather conditions, it may be necessary to switch your headlamps on manually.

**Note:** If you have switched autolamps on, you can only switch the main beam on when autolamps has switched the headlamps on.



E73840

## Vehicles without Daytime Running Lamps

The headlamps will come on and go off automatically depending on the ambient light.

## Vehicles with Daytime Running Lamps

The headlamps will remain on. See **Daytime Running Lamps** (page 35).

## FRONT FOG LAMPS



E71096

### WARNING



Only use the front fog lamps when visibility is considerably restricted by fog, snow or rain.

# Lighting

**Note:** You cannot switch the front fog lamps on if you have switched autolamps on.

## REAR FOG LAMPS



E71097

### WARNING

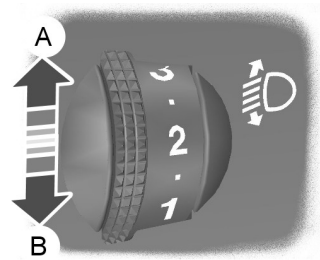


Do not use the rear fog lamps when it is raining or snowing and visibility is more than 50 metres.

**Note:** You cannot switch the rear fog lamps on if you have switched autolamps on.

## HEADLAMP LEVELLING

You can adjust the level of the headlamp beams according to the vehicle load.



E74611

- A Raise beams
- B Lower beams

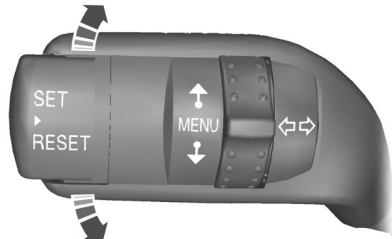
Set the headlamp levelling control to zero when your vehicle is unloaded. Set it to provide illumination between 35 and 100 metres when your vehicle is partially or fully loaded.

## HAZARD WARNING FLASHERS



For item location: See **At a Glance** (page 9).

## DIRECTION INDICATORS



E71098

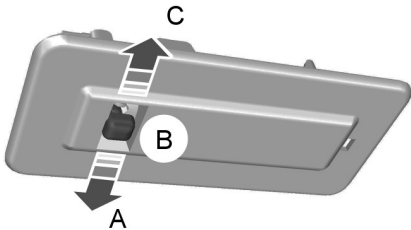
**Note:** Tap the lever up or down to make the direction indicators flash only three times.

# Lighting

## INTERIOR LAMPS

### Courtesy lamps - Vehicles without interior sensors

#### Type 1

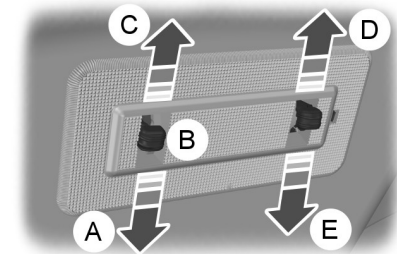


E71099

- A On
- B Off
- C Door contact

Courtesy lamps that are not fitted with a switch will only come on when the switch on the front courtesy lamp is set to position **C** and you open a door.

#### Type 2



E126234

- A On (front compartment lamp)
- B Off (front compartment lamp)
- C Door contact

- D Off (rear compartment lamp)
- E On (rear compartment lamp)

Rear compartment lamps will come on when you open a door, regardless of the switch position.

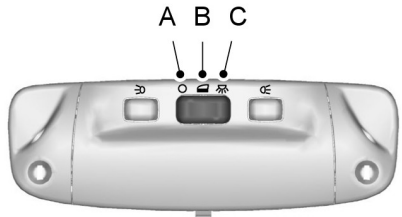
### Vehicles with double locking

If you set the switch to position **C**, the courtesy lamps will stay on for a short time after you close the doors. They will go off immediately when you switch the ignition on.

When you switch the ignition off, the courtesy lamps will come on. They will go off automatically after a short time.

If you leave a door open, the courtesy lamps will go off automatically after 30 minutes. To switch them back on, switch the ignition on for a short time.

### Courtesy lamp - Vehicles with interior sensors



E71945

- A Off
- B Door contact
- C On

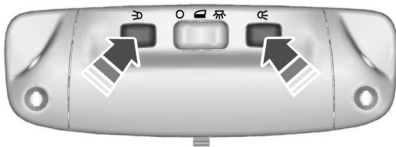
# Lighting

If you set the switch to position **B**, the courtesy lamp will come on when you unlock or open a door or the tailgate. If you leave a door open, it will go off automatically after a short time to prevent the vehicle battery from discharging. To switch it back on for a short time.

The courtesy lamp will also come on when you switch the ignition off. It will go off automatically after a short time or when you start or restart the engine.

If you set the switch to position **C**, the courtesy lamp will come on. It will go off automatically after a short time to prevent the vehicle battery from discharging. To switch it back on, switch the ignition on for a short time.

## Reading lamps



E71946



If you switch the ignition off, the reading lamps will go off automatically after a short time to prevent the vehicle battery from discharging. To switch them back on, switch the ignition on for a short time.

## STEPWELL LAMPS



The stepwell lamps will come on and go off automatically when you open and close the doors. If you unlock the doors with the remote control, they will come on. They will go off automatically after a short time.

## CHANGING A BULB

### WARNINGS

-  Switch the lights and the ignition off.
-  Let the bulb cool down before removing it.

### CAUTIONS

-  Do not touch the glass of the bulb.
-  Only fit bulbs of the correct specification. See **Bulb Specification Chart** (page 46).

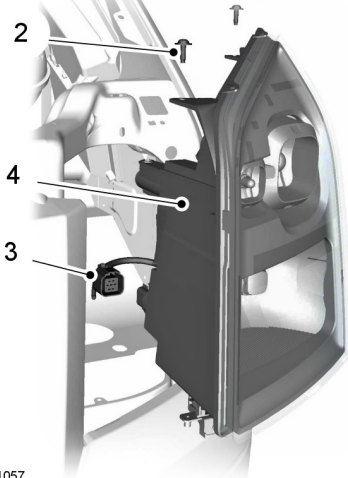
**Note:** We recommend that you ask your dealer to change the bulbs if your vehicle is fitted with air conditioning. Some bulbs are difficult to access.

**Note:** You will need to remove the headlamp to change the headlamp, side lamp or front direction indicator bulbs.

**Note:** The following instructions describe how to remove the bulbs. Fit replacements in the reverse order unless otherwise stated.

# Lighting

## Removing a headlamp



E71057

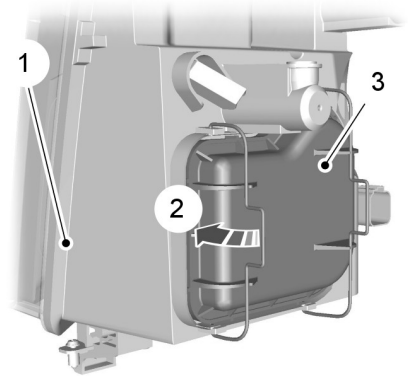
1. Open the bonnet. See **Maintenance** (page 127).
2. Remove the screws.
3. Disconnect the electrical connector.
4. Remove the headlamp.

## Headlamp main and dipped beam

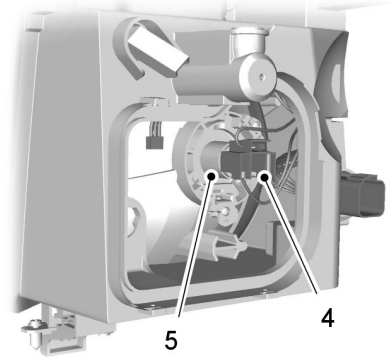
### CAUTION



Do not touch the glass of the bulb.



E71058

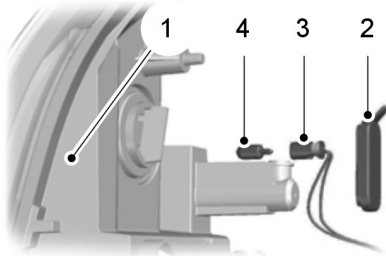


E71059

1. Remove the headlamp.
2. Release the clips.
3. Remove the cover.
4. Disconnect the electrical connector.
5. Release the clip and remove the bulb.

# Lighting

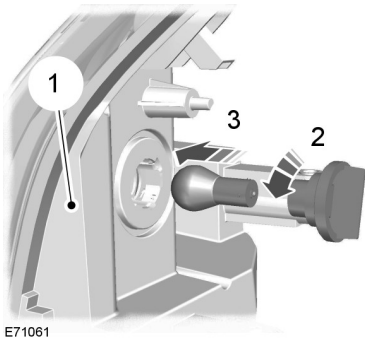
## Side lamps



E71060

1. Remove the headlamp.
2. Remove the cover.
3. Remove the bulb and the bulb holder.
4. Remove the bulb.

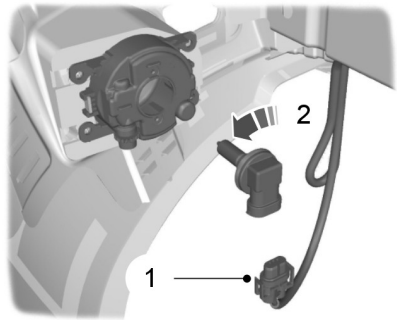
## Front direction indicators



E71061

1. Remove the headlamp.
2. Turn the bulb holder anti-clockwise and remove it.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Front fog lamps



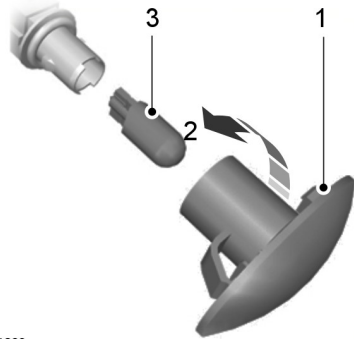
E71062

**Note:** You cannot separate the bulb from the bulb holder.

1. Disconnect the electrical connector.
2. Turn the bulb holder anti-clockwise and remove it.

## Side repeaters

### Type 1

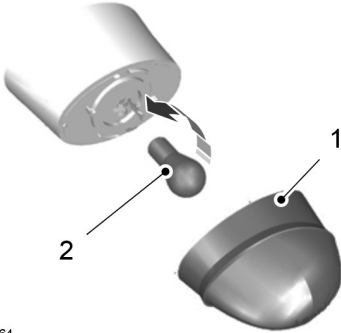


E71063

1. Carefully remove the side repeater.
2. Hold the bulb holder, turn the housing anti-clockwise and remove it.
3. Remove the bulb.

# Lighting

## Type 2

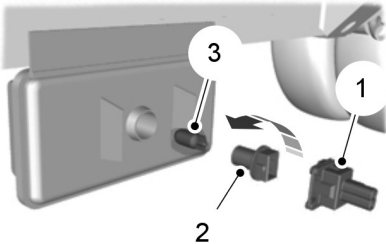


E71064

1. Turn the lens clockwise and remove it.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Side marker lamps

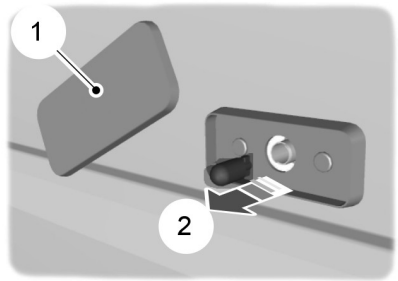
### Chassis cab and Flatbed truck with extended frame



E75022

1. Disconnect the electrical connector.
2. Turn the bulb holder anti-clockwise and remove it.
3. Remove the bulb.

## Jumbo van

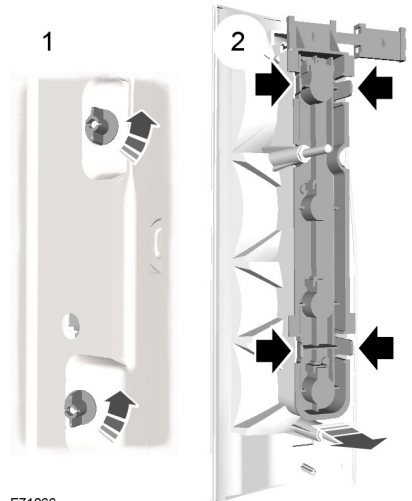


E71065

1. Turn the lens in either direction and remove it.
2. Remove the bulb.

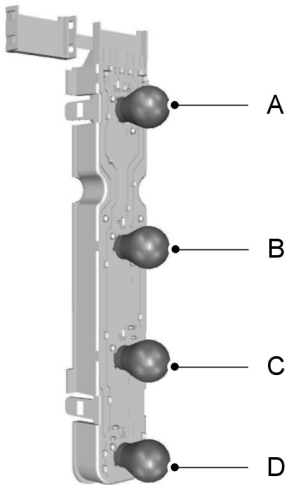
## Rear lamps

### Bus and Kombi



E71066

# Lighting

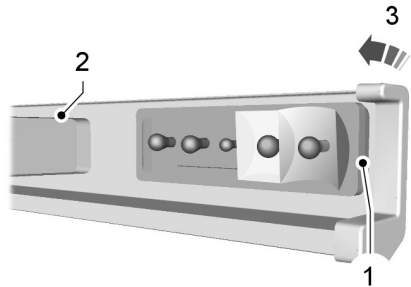


E71067

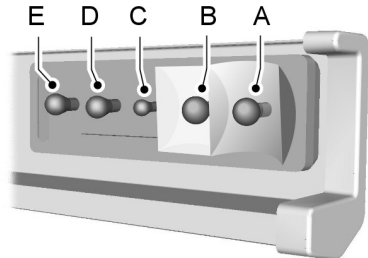
- A Tail and brake lamp
- B Direction indicator
- C Reversing lamp
- D Fog lamp

1. Remove the wing nuts.
2. Remove the rear lamp and unclip the bulb holder.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Chassis cab and Flatbed truck Type 1



E71068



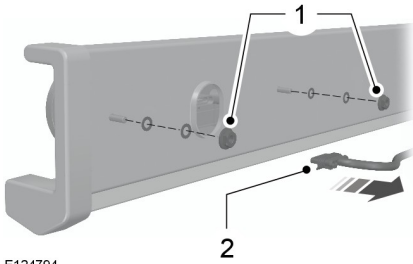
E71069

- A Direction indicator
- B Brake lamp
- C Tail lamp
- D Reversing lamp
- E Fog lamp

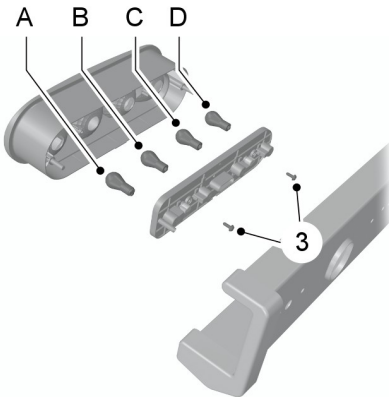
1. Release the retaining clip and move the plastic frame to the side.
2. Remove the lens.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

# Lighting

## Type 2



E124794



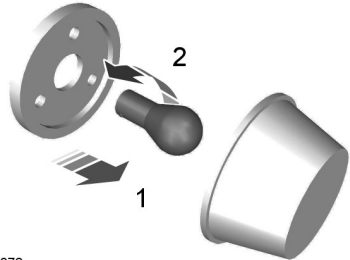
E124795

- A Tail and brake lamp
- B Direction indicator lamp
- C Reversing lamp
- D Fog lamp

1. Remove the nut.
2. Disconnect the electrical connector.
3. Remove the screw.

## Rear side lamps

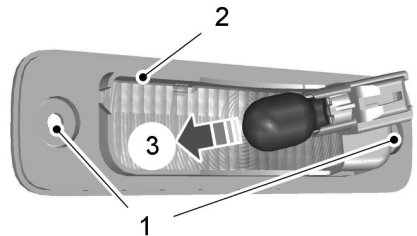
### Flatbed truck



E71072

1. Carefully prise the lens from the holder.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Central brake lamp

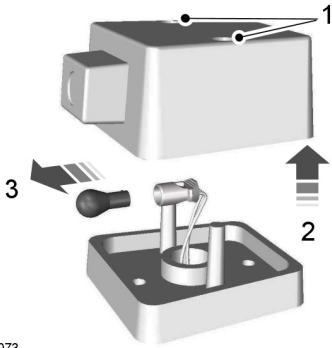


E71071

1. Remove the screws.
2. Remove the lamp.
3. Remove the bulb.

# Lighting

## Roof position lamps

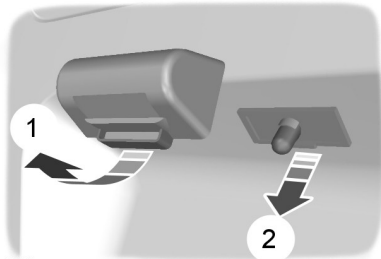


E71073

1. Remove the screws.
2. Remove the lens.
3. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Number plate lamp

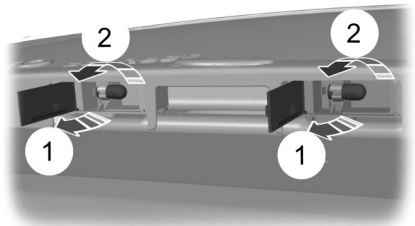
### Vehicles with double rear doors



E71074

1. Remove the lens.
2. Remove the bulb.

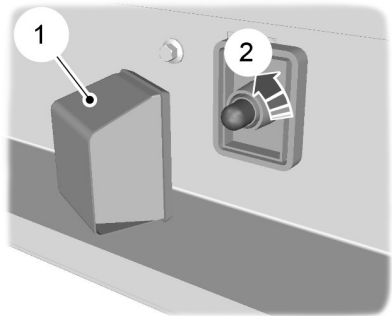
## Vehicles with a tailgate



E71075

1. Open the lens.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

## Flatbed truck



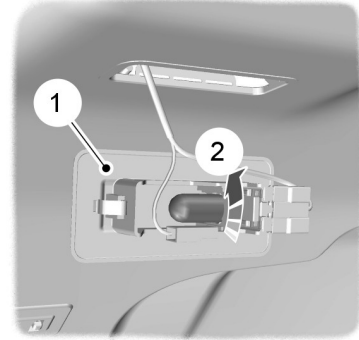
E71076

1. Remove the lens.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

# Lighting

## Front interior lamps

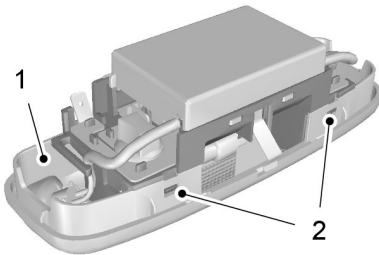
### Vehicles without interior sensors



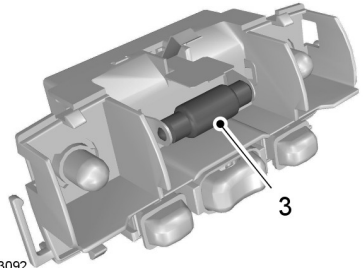
E71077

1. Carefully prise out the lamp.
2. Gently press the bulb into the bulb holder, turn it anti-clockwise and remove it.

### Vehicles with interior sensors



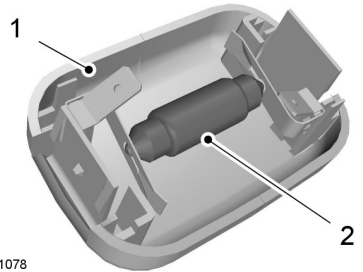
E73091



E73092

1. Carefully prise out the lamp.
2. Remove the lens.
3. Remove the bulb.

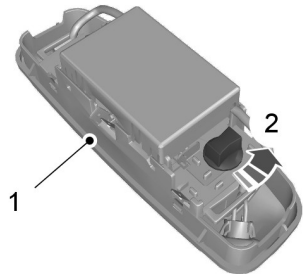
## Rear interior lamps



E71078

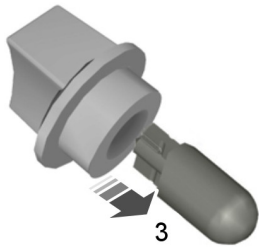
1. Carefully prise out the lamp.
2. Remove the bulb.

## Front reading lamps



E73938

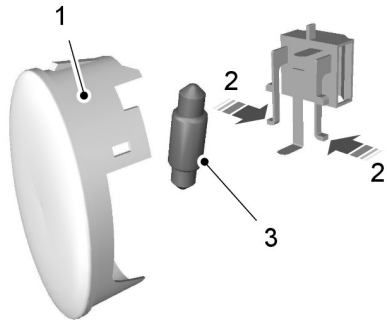
# Lighting



E73939

1. Carefully prise out the lamp.
2. Turn the bulb holder anti-clockwise and remove it.
3. Remove the bulb.

## Stepwell lamps



E71080

1. Carefully prise out the lamp.
2. Remove the bulb holder.
3. Remove the bulb.

## BULB SPECIFICATION CHART

Bulb	Watts (Specification)
Brake lamp - Chassis Cab and Flatbed Truck	21
Central brake lamp	16
Front direction indicator	21
Front fog lamp	55 (H11)
Headlamp main and dipped beam	55/60
Interior lamp	10
Number plate lamp - Except vehicles with double rear doors	10
Number plate lamp - Vehicles with double rear doors	5
Reading lamp	10
Rear direction indicator	21
Rear fog lamp	21
Rear side lamp - Flatbed Truck	4

# Lighting


---

<b>Bulb</b>	<b>Watts (Specification)</b>
Reversing lamp	21
Roof marker lamp	4
Side lamp	5
Side marker lamp	3
Side repeater (type 1)	5
Side repeater (type 2)	21/5
Stepwell lamp	10
Tail and brake lamp	21/5
Tail lamp - Chassis Cab and Flatbed Truck	10

# Windows and Mirrors

## POWER WINDOWS

### WARNING

 Do not operate the electric windows unless they are free from obstruction.



E71327


Switch on the ignition to operate the electric windows.

### Opening the driver window automatically

Press the switch to the second action point and release it. Press it again to stop the window.

## EXTERIOR MIRRORS

### WARNING

 Do not overestimate the distance of the objects that you see in the convex mirror. Objects seen in convex mirrors will appear smaller and further away than they actually are.

## Manual folding mirrors

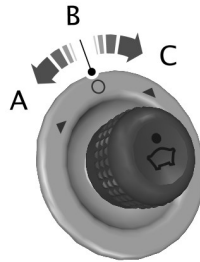
### Folding

Push the mirror towards the door window glass.

### Unfolding

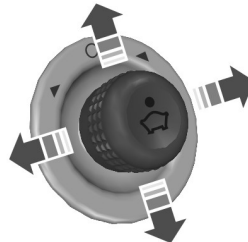
Make sure that you fully engage the mirror in its support when returning it to its original position.

## ELECTRIC EXTERIOR MIRRORS



E71280

- A Left-hand mirror
- B Off
- C Right-hand mirror

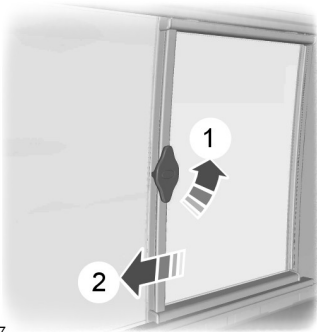


E71281

# Windows and Mirrors

The electric exterior mirrors are fitted with a heating element that will defrost or demist the mirror glass. See **Climate Control** (page 65).

## SLIDING WINDOWS



E66497

## REAR QUARTER WINDOWS



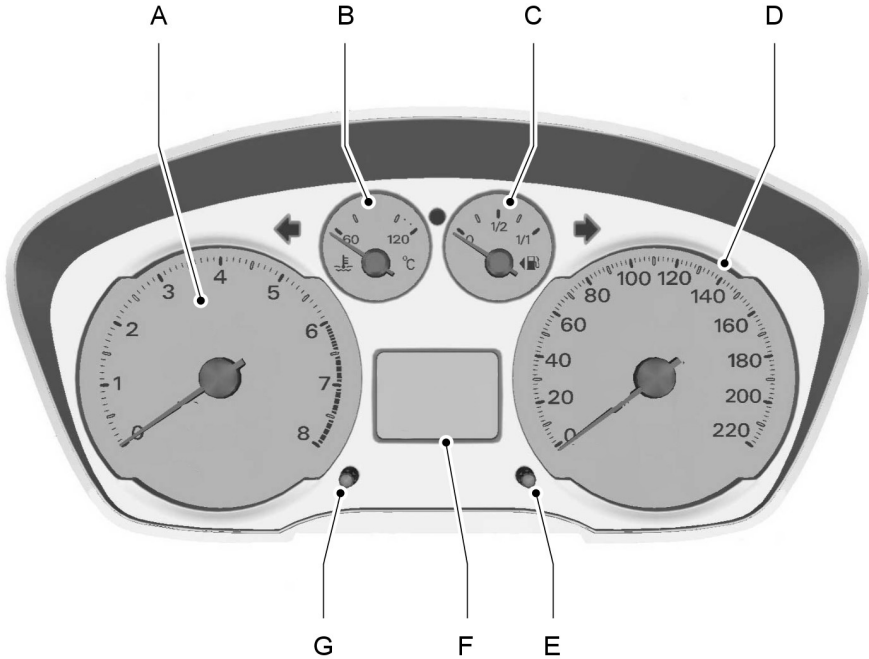
E66498

Pull the lever outwards to open the window. Press the lever in the middle to engage it in its catch. Pull the lever in the middle to close the window. Push it backwards until it engages in its catch.

# Instrument Cluster

## GAUGES

### Low series instrument cluster

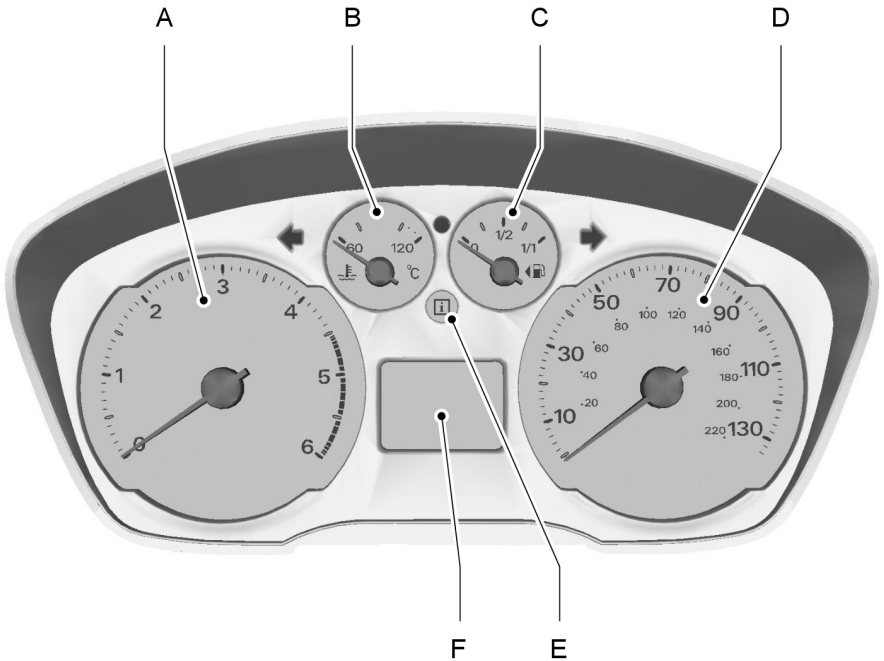


E71334

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer
- E Tripmeter reset button
- F Odometer, tripmeter, clock, distance to empty and door open warning indicator
- G Clock set button

# Instrument Cluster

## High series instrument cluster



E73043

- A Tachometer
- B Engine coolant temperature gauge
- C Fuel gauge
- D Speedometer
- E Message warning lamp
- F Message centre. See **General Information** (page 57).

# Instrument Cluster

## Engine coolant temperature gauge

Shows the temperature of the engine coolant. At normal operating temperature, the needle will remain in the centre section.

### CAUTION

⚠ Do not restart the engine until the cause of overheating has been resolved.

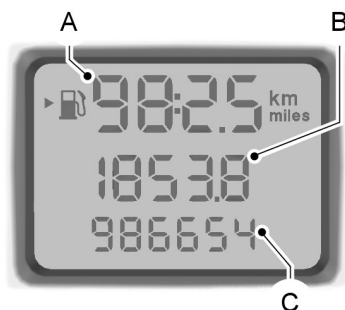
If the needle moves towards 120°C, the engine is overheating. Stop the engine, switch the ignition off and determine the cause **once the engine has cooled down**. See **Engine Coolant Check** (page 133). See **Reduced Engine Performance** (page 111).

## Fuel gauge

The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

## Odometer, tripmeter and clock

### Low series instrument cluster



E71335

- A Clock and distance to empty
- B Tripmeter
- C Odometer

**Note:** The tripmeter will reset to zero when a distance of 1999.9 miles or kilometres has been reached.

The tripmeter will register the distance of individual journeys. Press the reset button to reset the tripmeter.

## WARNING LAMPS AND INDICATORS

### Low series instrument cluster

The following warning lamps and indicators will come on briefly when you switch the ignition on to confirm that the system is operational:

- ABS
- Airbag
- Brake pad wear
- Brake system
- Cruise control
- Door open
- Engine
- Hill start assist
- Ignition
- Low fuel level
- Oil pressure
- Service interval
- Shift
- Stability control (ESP) and traction control
- Water-in-fuel

### High series instrument cluster

The following warning lamps and indicators will come on briefly when you switch the ignition on to confirm that the system is operational:

- ABS
- Airbag

# Instrument Cluster

- Brake pad wear
- Brake system
- Cruise control
- Engine
- Hill start assist
- Ignition
- Low fuel level
- Message indicator
- Shift
- Stability control (ESP) and traction control
- Start-Stop
- Water-in-fuel

If a warning or indicator lamp does not illuminate when the ignition is switched on, this indicates a malfunction. Have the system checked by properly trained technician.

## ABS warning lamp



If it illuminates when you are driving, this indicates a malfunction. You will continue to have normal braking (without ABS). Have the system checked by a properly trained technician as soon as possible.

## Airbag warning lamp



If it illuminates when you are driving, this indicates a malfunction. Have the system checked by a properly trained technician.

## Brake pad wear warning lamp



It will illuminate when the brake pads have worn down to a predetermined limit. Have this checked by a properly trained technician as soon as possible.

## Brake system lamp



It illuminates when the parking brake is engaged.

### WARNING



Reduce your speed gradually and stop your vehicle as soon as it is safe to do so. Use your brakes with care.

If it illuminates when you are driving, check that the parking brake is not engaged. If the parking brake is not engaged, this indicates a malfunction. Have the system checked by a properly trained technician immediately.

## Cruise control indicator



It will illuminate when you have set a speed using the cruise control system. See **Using Cruise Control** (page 104).

## Direction indicator



Flashes during operation. A sudden increase in the rate of flashing warns of a failed indicator bulb. See **Changing a Bulb** (page 38).

## Door open warning lamp



It will illuminate when you switch the ignition on if you have not closed the doors, the bonnet or tailgate properly.

# Instrument Cluster

## Engine warning lamps

### Malfunction indicator lamp



### Powertrain warning lamp



### All vehicles

If either lamp illuminates when the engine is running, this indicates a fault. The engine will continue to run but it may have limited power. If it flashes when you are driving, **reduce the speed of your vehicle immediately**. If it continues to flash, avoid heavy acceleration or deceleration. Have the system checked by a properly trained technician immediately.

### WARNING



Have this checked immediately.

If **both** lamps illuminate together, **stop your vehicle as soon as it is safe to do so** (continued use may cause reduced power and cause the engine to stop). Turn the ignition off and attempt to restart the engine. If the engine restarts have the system checked by a properly trained technician immediately. If the engine does not restart the vehicle must be checked before continuing your journey.

### Front fog lamp indicator



It will illuminate when you switch the front fog lamps on.

### Glow plug indicator



See **Starting a Diesel Engine** (page 82).

## Headlamp indicator



It will illuminate when you switch the headlamp dipped beam or the side and tail lamps on.

## Hill start assist indicator



While driving, it illuminates during activation of the system. After switching on the ignition, if it does not illuminate this indicates that the system has been disabled. Your dealer can re-enable it. During a malfunction, the system switches off and it will not illuminate while driving.

## Ignition warning lamp



If it illuminates when you are driving, this indicates a malfunction. Switch off all unnecessary electrical equipment. Have the system checked by a properly trained technician immediately.

## Low fuel level warning lamp



If it illuminates, refuel as soon as possible.

The arrow adjacent to the fuel pump symbol tells you on which side of your vehicle the fuel filler cap is located.

## Main beam indicator



It will illuminate when you switch the headlamp main beam on. It will flash when you use the headlamp flasher.

## Message indicator



It will illuminate when a new message is stored in the information display. See **Information Messages** (page 59).

# Instrument Cluster

## Oil pressure warning lamp

### WARNING



Do not resume your journey if the oil pressure warning lamp illuminates despite the oil level being correct.

Have the system checked by a properly trained technician immediately.



If the lamp stays on after starting or illuminates during a journey, this indicates a malfunction.

Stop your vehicle as soon as it is safe to do so and switch the engine off. Check the engine oil level. See **Engine Oil Check** (page 132).

## Rear fog lamp indicator



It will illuminate when you switch the rear fog lamps on.

## Service interval indicator

### Vehicles with a diesel engine



It will illuminate when a service is due or there is excessive soot or sludge in the oil. Have the engine oil changed as soon as possible.

Your dealer will switch the service interval indicator lamp off for you after completing the service.

## Shift indicator



It will illuminate to inform you that shifting to a higher gear may give better fuel economy and lower CO2 emissions. It will not illuminate during periods of high acceleration, braking or when the clutch pedal is pressed.

## Stability control (ESP) and traction control warning lamp

**Note:** *If either the ESP system or traction control system malfunctions, the respective system will switch off automatically.*



It will flash when either system is operating. If it does not flash or it comes on when you are driving, this indicates a malfunction. Have the system checked by a properly trained technician immediately.

If you switch ESP off, the warning lamp will come on. The lamp will go out when you switch the system back on or when you switch the ignition off.

## Start-Stop indicator



It will illuminate when the engine has automatically stopped. It will flash to inform you when the engine needs to restart. See **Using start-stop** (page 84). See **Information Messages** (page 59).

## Water-in-fuel indicator

### Vehicles with a diesel engine



It will illuminate if there is excess water in the fuel filter. Drain off the water immediately. See

**Draining the Fuel Filter Water Trap** (page 134). If the lamp comes on after draining the water, this indicates a fuel filter service is required. Have the system checked by a properly trained technician immediately.

# Instrument Cluster

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## **AUDIBLE WARNINGS AND INDICATORS**

### **Door open warning**

The door open warning chime will sound if you switch the ignition on and you have not closed the doors, the bonnet or tailgate properly.

### **Message centre**

See **Personalised Settings** (page 62).

# Information Displays

## GENERAL INFORMATION

### WARNING



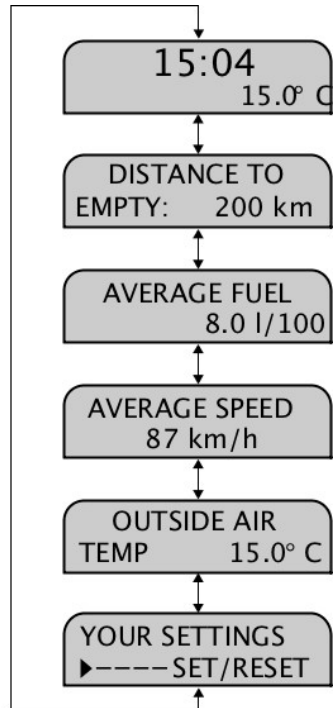
For road safety reasons, set and reset the functions only when the vehicle is stationary.

Various functions can be programmed using the **message centre** and the multi-function lever on the steering column.

The message centre also provides warning messages about faults or system malfunctions. See **Information Messages** (page 59).

## Main menu

### Overview of the main menu displays

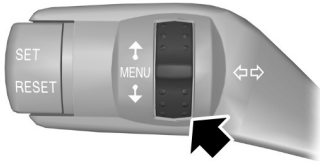


E73982

The various sub-menus are accessed from the main menu.

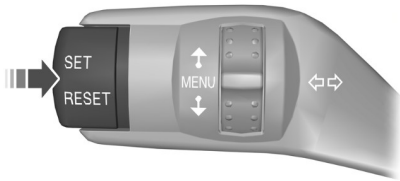
# Information Displays

## Controls



E73265

Use the rotary control to scroll through the menu.

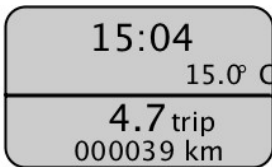


E73266

**Note:** If the chimes are activated, a short tone will sound each time the button is pressed.

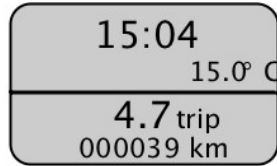
Press the **SET** and **RESET** button to select a sub-menu or the item that you want to adjust.

## Odometer



E73983

## Tripmeter

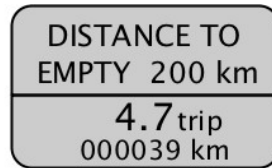


E73984

**Note:** The tripmeter will reset to zero when a distance of 1999.9 miles or kilometres has been reached.

Press the **SET** and **RESET** button for at least 2 seconds to reset.

## Distance to empty

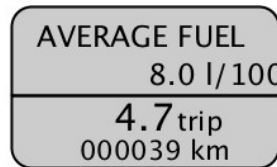


E73985

**Note:** Changes in driving pattern may cause the value to vary.

Indicates the approximate distance the vehicle will travel on the fuel remaining in the tank.

## Average fuel consumption



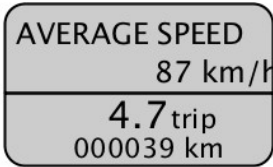
E73986

Indicates the average fuel consumption since the function was last reset.

Press the **SET** and **RESET** button to reset.

# Information Displays

## Average speed

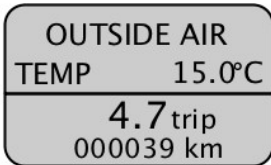


E73987

Indicates the average speed calculated over the last 1 000 kilometres (600 miles) or since the function was last reset.

Press the **SET** and **RESET** button to reset.

## Outside air temperature



E73988

### WARNING



Even if the temperature rises to above +4 °C there is no guarantee that the road is free of hazards caused by inclement weather.

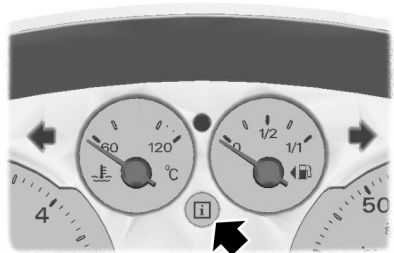
A warning chime will sound in the following conditions:

- +4 °C or lower: frost warning
- 0 °C or lower: danger of icy roads

## INFORMATION MESSAGES

### Warning messages

When certain warning message appear in the display, you must press the **SET** and **RESET** button to acknowledge them.



E73273

Some warning messages are supplemented by the message centre warning lamp above the display which comes on red or amber, depending on the severity of the problem.

If a warning message accompanied by the warning lamp is present, the warning lamp will remain on.

## Information Displays

Messages	Warning lamp	Meaning
SWITCH IGNITION OFF	red	Switch the ignition off before leaving the vehicle if the system has stopped the engine. See <b>Using start-stop</b> (page 84).
ENGINE MALFUNCTION	red	Malfunction of the engine or related systems. Stop the vehicle as soon as safely possible and switch off the engine immediately. Have the engine checked by properly trained technicians.
LOW OIL LEVEL	red	Low oil level. Stop the vehicle as soon as safely possible and switch off the engine immediately. Top up the engine oil. See <b>Engine Oil Check</b> (page 132).
WATER DETECTED IN FUEL	red	Water has been detected in the fuel. See <b>Draining the Fuel Filter Water Trap</b> (page 134).
SERVICE FUEL FILTER	red	Indicates the fuel filter service is due. Have the system checked by a properly trained technician as soon as possible.
LOW OUTSIDE TEMPERATURE	red	Outside temperature is below 0 °C
LOW OUTSIDE TEMPERATURE	amber	Outside temperature is below +4 °C
SERVICE OIL NOW	amber	Have your vehicle checked by properly trained technicians.
DOOR AJAR CLOSE DOOR	amber	Check all doors are fully closed.
DRIVER DOOR OPEN	amber	The driver's door is open.
PASSENGER DOOR OPEN	amber	The front passenger's door is open.
DRIVER SIDE REAR DOOR OPEN	amber	The rear door on the driver's side is open.
PASSENGER SIDE REAR DOOR OPEN	amber	The rear door on the passenger's side is open.
LUGGAGE COMP OPEN	amber	The cargo compartment or rear door is open.
BONNET OPEN	amber	The bonnet is open.

## Information Displays

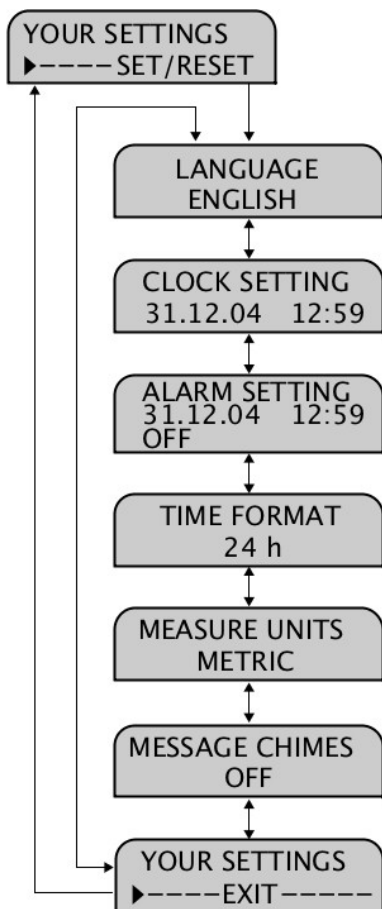
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Messages	Warning lamp	Meaning
SERVICE OIL SOON xx DAYS	-	Indicates the oil service is due.
*ALARM* RESET TO STOP	-	Alarm clock is ringing. See <b>Personalised Settings</b> (page 62).
PRESS A PEDAL	-	The engine needs to be restarted, press any pedal to start. See <b>Using start-stop</b> (page 84).
SELECT NEUTRAL	-	Select neutral for the system to restart the engine. See <b>Using start-stop</b> (page 84).
MANUAL START REQUIRED	-	The Start-stop system is not functioning. A manual restart is required.

# Information Displays

## PERSONALISED SETTINGS

### Overview of the your settings menu displays



E73990

### Your settings menu

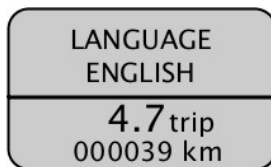


E73989

The following sub-menus are available in the **your settings menu**:

- Language
- Clock setting
- Alarm setting
- Time format
- Units of measure
- Message chimes

### Language setting



E73991

A choice of eleven languages are available: English (UK), German, Italian, French, Spanish, Turkish, Russian, Dutch, Polish, Swedish, Portuguese.

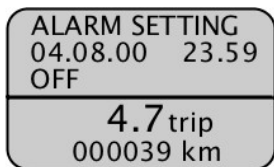
Once selected, turn the rotary control to save the setting and exit the menu.

### Clock setting

See **Clock** (page 77).

# Information Displays

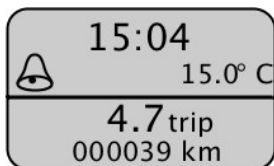
## Alarm setting



E74286

- Press and hold **SET** and **RESET**. The day starts to flash. Adjust using the rotary control.
- Press the **SET** and **RESET** button to confirm the setting and move to the month.
- Proceed in the same way to set the year, hours and minutes.
- After setting the minutes and pressing **SET** and **RESET**, the time is stored.
- Press **SET** and **RESET** to turn the alarm on or off.

## Alarm activated



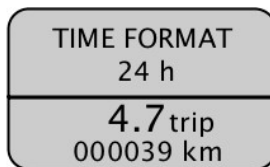
E74287



E74387

Press **SET** and **RESET** to turn off.

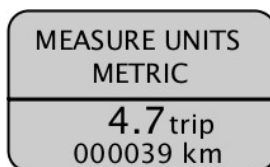
## Time format



E73995

Press **SET** and **RESET** to toggle between 12 and 24 hour format.

## Units of measure



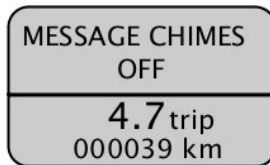
E73993

Press **SET** and **RESET** to toggle between metric and imperial units.

## Message chimes

The following chimes can be deactivated:

- ambient temperature at 4°C
- set time confirmation
- **SET** and **RESET** button press



E73994

Press **SET** and **RESET** to toggle the chimes on and off.

# Information Displays

---

## Your Settings – Exit



E73996

Press **SET** and **RESET** to exit.

# Climate Control

## PRINCIPLE OF OPERATION

### Outside air

Keep the air intakes forward of the windscreen free from obstruction (snow, leaves etc.) to allow the climate control system to function effectively.

### Recirculated air

#### CAUTION

! Prolonged use of recirculated air may cause the windows to mist up. If the windows mist up, follow the settings for defrosting and demisting the windscreen.

The air currently in the passenger compartment will be recirculated. Outside air will not enter the vehicle.

### Heating

Heating performance depends on the temperature of the engine coolant.

### Air conditioning

**Note:** The air conditioning operates only when the temperature is above 4°C (39°F).

**Note:** If you use the air conditioning, the fuel consumption of your vehicle will be higher.

Air is directed through the evaporator where it is cooled. Humidity is extracted from the air to help keep the windows free of mist. The resulting condensation is directed to the outside of the vehicle and it is therefore normal if you see a small pool of water under your vehicle.

### General information on controlling the interior climate

Fully close all the windows.

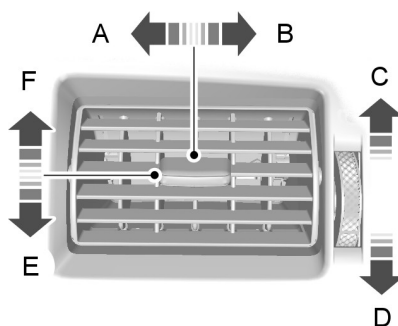
### Warming the interior

Direct the air towards your feet. In cold or humid weather conditions, direct some of the air towards the windscreen and the door windows.

### Cooling the interior

Direct the air towards your face.

## AIR VENTS



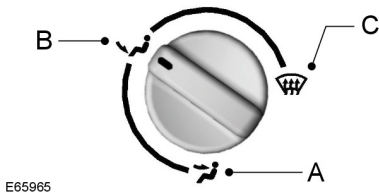
E71344

- A Left
- B Right
- C Open
- D Close
- E Down
- F Up

# Climate Control

## MANUAL CLIMATE CONTROL

### Air distribution control



E65965

- A Face level
- B Footwell
- C Windscreen

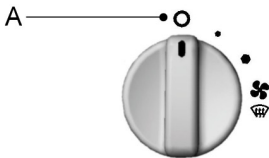
**Note:** A small amount of air is always directed towards the windscreen.

### Temperature control



E65966

### Blower



E65967

- A Off

**Note:** If you switch the blower off, the windscreen may mist up.

### Recirculated air



E65968

- A Recirculated air
- B Outside air

### Defrosting and demisting the windscreen quickly



E65969

Close all of the air vents for maximum airflow to the windscreen. If necessary, switch the heated windows on. See **Heated Windows and Mirrors** (page 68).

### Heating the interior quickly



E65970

# Climate Control

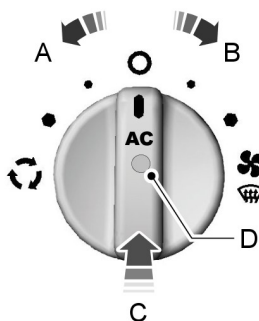
## Ventilation



E65971

## Air conditioning

### Switching the air conditioning on and off



E65972

- A Recirculated air
- B Outside air
- C On and off
- D Air conditioning indicator

**Note:** The indicator in the control will come on when the air conditioning is operating.

### Cooling with outside air



E65973

Switch the air conditioning on.

### Cooling the interior quickly



E65974

Switch the air conditioning on.

### Defrosting and demisting the windscreen



E65975

A Windscreen

Set the air distribution control to position **A** and select outside air. When the temperature is above 4°C (39°F), the air conditioning will switch on automatically. The indicator in the control will **not** come on in this instance.

### Reducing interior air humidity



E65976

A Windscreen

# Climate Control

Set the air distribution control to position **A** and select outside air. When the temperature is above 4°C (39°F), the air conditioning will switch on automatically. The indicator in the control will **not** come on in this instance.

## HEATED WINDOWS AND MIRRORS

### Heated windows

**Note:** *If the ambient temperature is very low and the engine is cold, the heated windscreen will switch on automatically.*

**Note:** *When Start-Stop is active, the engine will not automatically stop if the heated windows have already been switched on. If the heated window switch is pressed when the engine has automatically stopped, an engine restart will be required. See **Using start-stop** (page 84).*

### Heated windscreen



### Heated rear window



Use the heated windows to defrost or demist the windscreen or rear window. They will operate only when the engine is running and will switch off automatically after a short time.

### Heated exterior mirrors

**Note:** *On vehicles without a heated mirror switch, they will switch on automatically when you switch the heated windscreen or rear window on.*



Electric exterior mirrors are fitted with a heating element that will defrost or demist the mirror glass. They will switch off automatically after a short time.

## AUXILIARY HEATER

### General information

#### WARNINGS



Do not operate the programmable fuel fired heater at filling stations, near sources of combustible vapours or dust or in enclosed spaces.



Do not refuel when the programmable fuel fired heater display is on.

**Note:** *The programmable fuel fired heater will switch off automatically when the battery voltage is low.*

**Note:** *All symbols on the display will flash if the power to the programmable fuel fired heater has been interrupted. The heater will not operate under these circumstances. Re-set the clock time.*

**Note:** *The programmable fuel fired heater will shut down in the event of a malfunction. Have the system checked by an expert.*

Observe the following information:

- Switch the programmable fuel fired heater on for approximately 10 minutes at least once a month, all year round. This prevents the water pump and heater motor from seizing.
- To avoid corrosion, make sure the coolant in your vehicle contains at least 10 % antifreeze all year round.
- Make sure the coolant level is between the **MAX** and **MIN** marks on the reservoir to prevent air locks. See **Engine Coolant Check** (page 133).

# Climate Control

- Programmable blower operation begins when the coolant reaches a certain temperature. In this mode, ambient temperature has no effect.
- In continuous heater operation, the unit senses the ambient temperature. If this is above 5°C (41°F) the programmable fuel fired heater will not activate.


The programmable fuel fired heater operates independently of the vehicle heater by heating the engine's coolant circuit. It is fed from the vehicle fuel tank. It may also be used while the vehicle is in motion to help the vehicle heater warm up the interior more quickly.

It is possible that when the programmable fuel fired heater is activated, exhaust fumes may come from under the sides of the vehicle. This is normal.

## Principle of operation

### Before operation

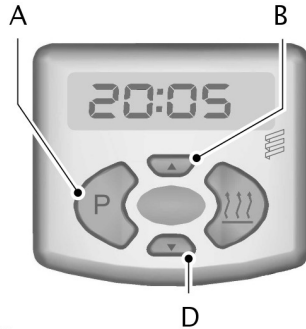
#### CAUTION

 Turning the blower switch to a position other than position one will reduce battery life or even flatten the battery.

Before activating or programming the heater, prepare the following settings:

- Set the vehicle heater temperature control to maximum.
- Turn the blower switch to position one.
- Switch on the recirculated air before turning the ignition off. Wait at least five seconds for the ventilation system to close the outside air vents.
- Open all the cabin air vents.

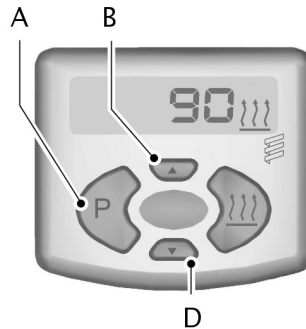
### Setting the clock time



E71347


Press and hold button **A** for more than three seconds, until the time flashes in the display. Within five seconds, press buttons **B** and **D** to set the time. To adjust the time rapidly, press and hold the respective button.

### Setting the heating duration



E71348

#### CAUTION

 The recommended setting is 30 minutes. Longer durations will reduce battery life or even flatten the battery.

# Climate Control

**Note:** The heating duration for pre-set times and the timed heating mode can be set between 10 and 120 minutes.

Press and hold button **A** for more than three seconds, until the time flashes in the display. Wait for five seconds until the heating symbol appears and the heating time flashes.

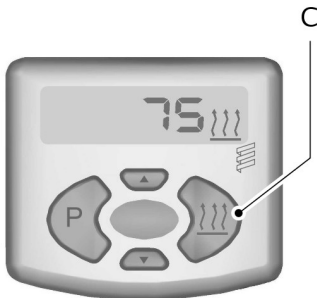
Press buttons **B** and **D** to adjust the heating duration.

After setting the heating duration, press button **A**. The display will show the clock time with the colon flashing.

## Switching off the heater

Press the heating symbol button. The heater will operate for an additional three minutes, and then stop. The display will then show the clock time.

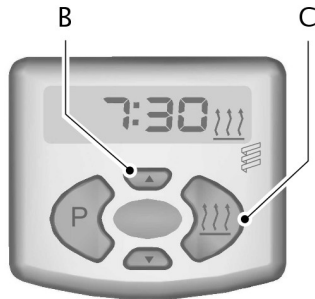
## Timed heating mode



E71349

The heater may be switched on to heat for the pre-set duration at any time. Press button **C**. The display will light up and show the remaining heating time and the heating symbol.

## Continuous heater operation



E71350

## WARNING



The heater will continue to operate after the ignition is switched off. Switch the heater off to avoid unnecessary heating.

Press and hold button **B**. Press button **C**. The heater will now operate until button **C** is pressed again. The display will light up and show the clock time and the heating symbol.

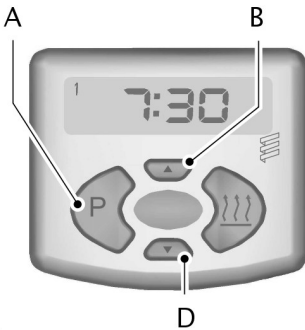
## Programmable heating mode

The heater will come on automatically at the activated pre-set start time, and will stay on for the programmed duration. The display will light up and show the remaining heating duration and the heating symbol.

You can program up to three different pre-set start times.

# Climate Control

## Programming the pre-set heating start times



E71351

Press button **A** repeatedly, until the symbol (**1**, **2** or **3**) for the desired pre-set time is displayed. Press buttons **B** and **D** to set the time. To adjust the time rapidly, press and hold the respective button.

After programming the pre-set start times press button **A**. The display will show the clock time with the colon flashing.

## Activating and deactivating pre-set start times

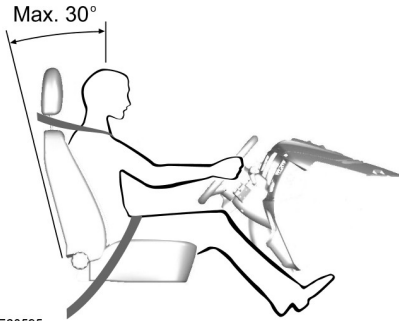


E71352

Press button **A** repeatedly, until the symbol (**1**, **2** or **3**) for the desired pre-set time is displayed. Press button **C**. The **ON** symbol will appear in the display. To deactivate a pre-set time, press button **C** again.


# Seats


## SITTING IN THE CORRECT POSITION



E68595

### WARNINGS

 Do not adjust the seats when the vehicle is moving.

 Only when you use the seat belt properly, can it hold you in a position that allows the airbag to achieve its optimum effect.

When you use them properly, the seat, head restraint, seat belt and airbags will provide optimum protection in the event of a collision. We recommend that you:


- sit in an upright position with the base of your spine as far back as possible.
- do not recline the seatback more than 30 degrees.
- adjust the head restraint so that the top of it is level with the top of your head and as far forwards as possible, remaining comfortable.
- keep sufficient distance between yourself and the steering wheel. We recommend a minimum of 250 millimetres (10 inches) between your breastbone and the airbag cover.
- hold the steering wheel with your arms slightly bent.

- bend your legs slightly so that you can press the pedals fully.
- position the shoulder strap of the seat belt over the centre of your shoulder and position the lap strap tightly across your hips.

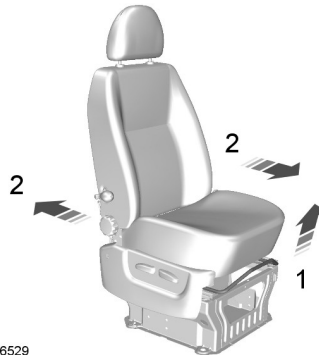
Make sure that your driving position is comfortable and that you can maintain full control of your vehicle.

## FRONT SEATS

### WARNING


 Do not adjust the seats when the vehicle is moving.

## Moving the seats backwards and forwards



E66529

### WARNING

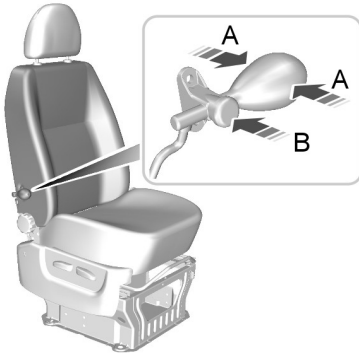
 Rock the seat backwards and forwards after releasing the lever to make sure that it is fully engaged in its catch.

# Seats

## CAUTION

**!** Do not move the front seats too close to the instrument panel. The front nine catch positions are only to provide access to the vehicle battery.

### Adjusting the lumbar support



E66530

- A Increase
- B Decrease

### Adjusting the angle of the seat base



E66531



E66532

### Adjusting the angle of the seatback



E66533

### Adjusting the armrest



E66534

Turn the wheel underneath the armrest.

# Seats

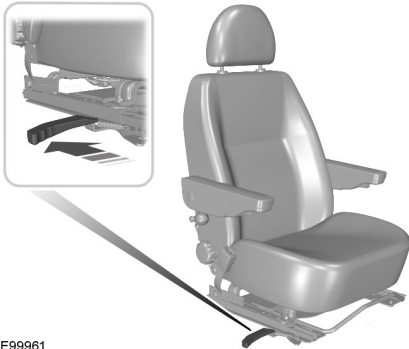
## Rotating the seat

### WARNING

- ⚠ Make sure that the seats and the seatbacks are secure and fully engaged in their catches.

### CAUTION

- ⚠ Rotate the seat only towards the centre of the vehicle and not towards the door.



E99961

## REAR SEATS

### WARNINGS

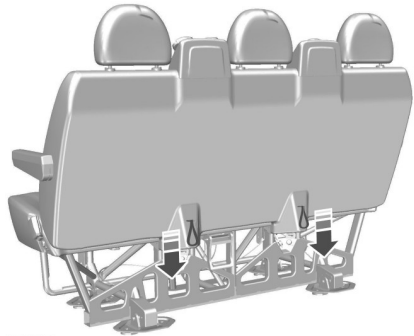
- ⚠ Do not use the bench seats as a bed when the vehicle is moving.
- ⚠ Make sure that the seats and the seatbacks are secure and fully engaged in their catches.
- ⚠ When folding the seatbacks up, make sure that the belts are visible to an occupant and not caught behind the seat.

## Folding a single seatback forwards



E70789

## Folding the entire seatback forwards



E68610

To fold the seatback:

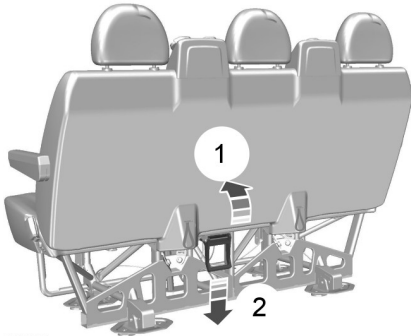
1. Pull the release straps down and hold them there.
2. Push the seatback forwards.

# Seats

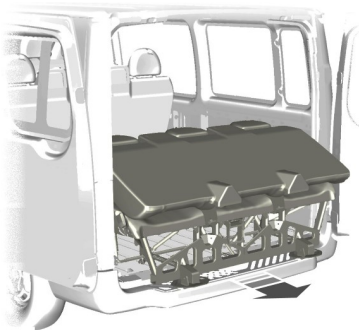
To return the seatback to its upright position:

1. Pull the release straps down and hold them there.
2. Push the seatback to the upright position.

## Removing the bench seats




E68611



E68612


### WARNINGS

 Plug the bolt holes that are exposed when you remove the seats to prevent exhaust fumes from entering the vehicle.

### WARNINGS

 The bench seat weighs 89 kilograms.

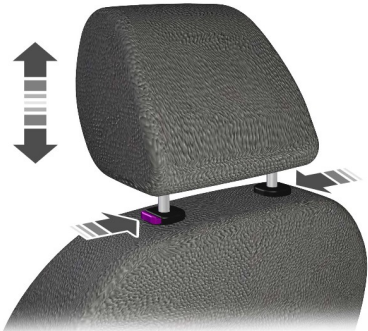
### CAUTION

 Store the seat in a dry and secure place.

1. Fold the seatback forwards.
2. Pull the release up and hold it there.
3. Gently pull the seat backwards until the front of the seat frame clears the catches on the floor.
4. Remove the seat.

Install the seat in the reverse order.


## HEAD RESTRAINTS



E66539

## Adjusting the head restraint

### WARNING

 Raise rear head restraint when the rear seat is occupied by a passenger or a child restraint.

Adjust the head restraint so that the top of it is level with the top of your head.

# Seats

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## Removing the head restraint

Press the locking buttons and remove the head restraint.

## HEATED SEATS



E66540

**Note:** Start the engine to use the heated seats.

**Note:** The heater can only be re-activated once the seat temperature drops below 26°C (79°F).

The heated seats will reach their maximum temperature after five or six minutes. They will go off automatically.

# Convenience features

## CLOCK

### Vehicles with clock displayed in the audio or navigation unit

For detailed instructions on how to adjust the clock, refer to the separate audio or navigation manual.

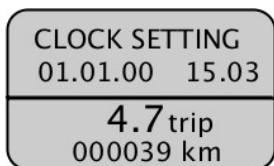
### Vehicles with low series instrument cluster

**Note:** You will hear a short tone when the time is set.

**Note:** Press and hold the clock set button for more than one second to toggle between 12 and 24 hour format.

1. Switch the ignition to position **II**.
2. Press and hold the clock set button for more than three seconds, until the time flashes in the display.
3. Press the clock set button to adjust the time. To adjust the time rapidly, press and hold the button.

### Vehicles with high series instrument cluster

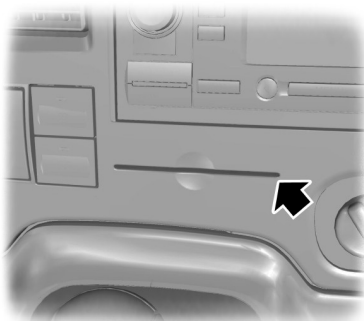


E73992

1. Scroll to this display. Press and hold **SET** and **RESET**. The day starts to flash. Adjust using the rotary control.
2. Press the **SET** and **RESET** button to confirm the setting and move to the month.
3. Proceed in the same way to set the year, hours and minutes.

After setting the minutes and pressing **SET** and **RESET**, the time and date are stored.

## TICKET HOLDERS



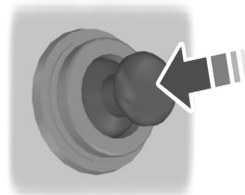
E77059

## CIGAR LIGHTER

### CAUTIONS

- ! If you use the socket when the engine is not running, the battery may discharge.
- ! Do not hold the cigar lighter element pressed in.

**Note:** You can use the socket to power 12 volt appliances that have a maximum current rating of 20 Amperes. Use only Ford accessory connectors or connectors specified for use with SAE standard sockets.



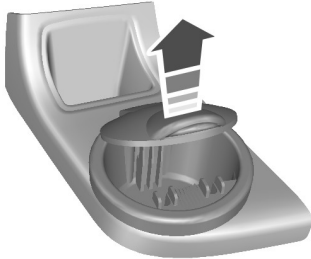
E72972

## Convenience features

Press the element in to use the cigar lighter. It will pop out automatically.

For item location: See **At a Glance** (page 9).

### ASHTRAY



E69119

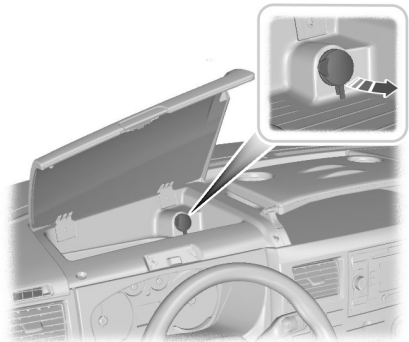
### AUXILIARY POWER POINTS

#### WARNING



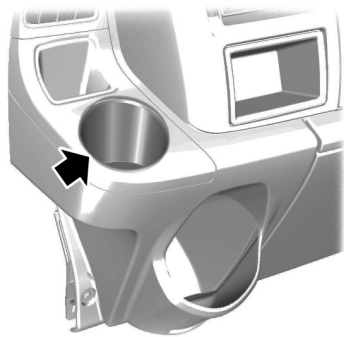
If used when the engine is not running, the battery will discharge. There may be insufficient power to restart your engine.

**Note:** You can use them to power 12 volt appliances that have a maximum current rating of 20 Amperes. Use only Ford accessory connectors or connectors specified for use with SAE standard sockets.



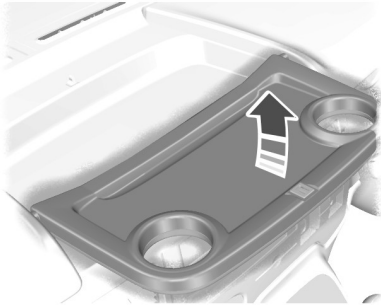
E69125

### CUP HOLDERS



E69128

# Convenience features



E69129

## WARNINGS



Do not place hot drinks in the cup holders when the vehicle is moving.



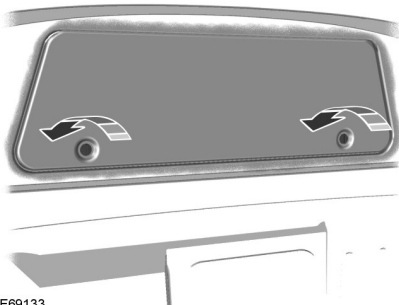
Do not use the tray when the vehicle is moving.



Do not place glass objects in the cup holders.

## STORAGE COMPARTMENTS

### Overhead storage compartment



E69133

## WARNING



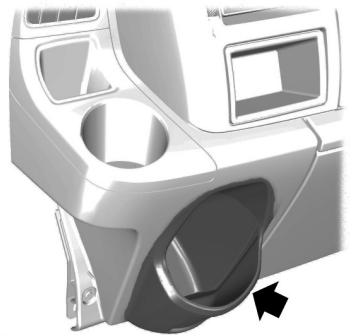
Do not place heavy objects in the overhead storage compartment.

### Front storage compartment



E77061

### BOTTLE HOLDER



E75484

## WARNING



Do not place glass objects in the bottle holder.


# Convenience features

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## FLOOR MATS

See **Connectivity** (page 227).

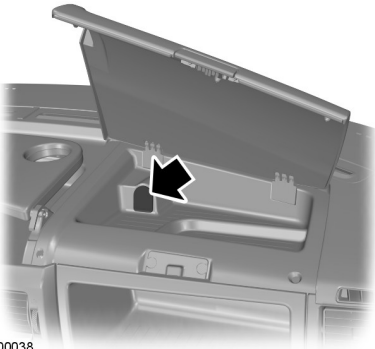
### WARNING

 When using the floor mats, always make sure the floor mat is properly secured using the appropriate fixings and positioned so that it does not interfere with the operation of the pedals.

---

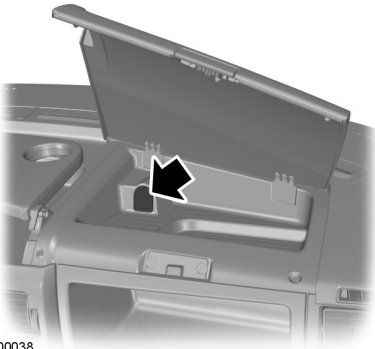
## AUXILIARY INPUT SOCKET

See separate audio handbook.



E100038

## USB PORT



E100038

# Starting and Stopping the Engine

## GENERAL INFORMATION

### General points on starting

If the battery has been disconnected the vehicle may exhibit some unusual driving characteristics for approx. 8 kilometres (5 miles) after reconnecting the battery.

This is because the engine management system must realign itself with the engine. Any unusual driving characteristics during this period may be disregarded.

### Starting the engine by towing or pushing

#### WARNING



To prevent damage you must not push or tow start your vehicle. Use booster cables and a booster battery.

See **Jump-Starting the Vehicle** (page 141).

## IGNITION SWITCH

#### WARNING



Never return the key to position **O** or **I** when the vehicle is in motion.



E72128

**O** The ignition is off.

**I** The ignition and all main electrical circuits are disabled.

**Note:** Do not leave the ignition key in this position for too long to avoid discharging the battery.

**II** The ignition is switched on. All electrical circuits are operational. Warning lamps and indicators illuminate. This is the key position when driving. You must also select it when being towed.

**III** The starter motor is activated. Release the key as soon as the engine starts.

## STARTING A PETROL ENGINE

**Note:** You can only operate the starter for a limited period of time, for example 10 seconds. The number of start attempts is limited to approximately six. If you exceed this limit, the system will not allow you to try again until a period of time has elapsed, for example 30 minutes.

### Cold or hot engine

#### Vehicles with manual transmission

**Note:** Do not touch the accelerator pedal.

**Note:** Releasing the clutch pedal during engine start may stop the engine cranking and return to ignition on.

1. Fully depress the clutch pedal.
2. Start the engine.

#### Vehicles with automatic transmission

**Note:** Do not touch the accelerator pedal.

**Note:** Releasing the brake pedal during engine start may stop the engine cranking and return to ignition on.

1. Move the transmission selector lever to position P or N.
2. Fully depress the brake pedal.
3. Start the engine.

#### All vehicles

If the engine does not start, wait for a short period and try again.

# Starting and Stopping the Engine

If the engine does not start after three attempts, wait 10 seconds and follow the flooded engine procedure.

If you have difficulty starting the engine when the temperature is below  $-25^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$ ), press the accelerator pedal to the mid-way point of its travel and try again.

## Flooded engine

### Vehicles with manual transmission

1. Fully depress the clutch pedal.
2. Fully depress the accelerator pedal and hold it there.
3. Start the engine.

### Vehicles with automatic transmission

1. Move the transmission selector lever to position P or N.
2. Fully depress the accelerator pedal and hold it there.
3. Fully depress the brake pedal.
4. Start the engine.

### All vehicles

If the engine does not start, repeat the cold or hot engine procedure.

## Engine idle speed after starting

The speed at which the engine idles immediately after starting will vary depending on the engine temperature.

The idle speed is automatically increased when the engine is cold this is to heat the catalytic converter. This keeps the vehicle emissions to an absolute minimum.

The idle speed will slowly decrease to the normal level as the catalytic converter warms up.

## STARTING A DIESEL ENGINE

### Cold or hot engine

#### All vehicles

**Note:** When the temperature is below  $-15^{\circ}\text{C}$  ( $5^{\circ}\text{F}$ ), you may need to crank the engine for up to 15 seconds. If you consistently operate the vehicle in such temperatures, we recommend that you have an engine block heater fitted.

**Note:** Continue cranking the engine until it starts.

**Note:** You can only operate the starter for a maximum of 15 seconds at a time.

**Note:** If the engine fails to start after a number of attempts, the engine warning lamp will illuminate. See **Warning Lamps and Indicators** (page 52). The engine must be left for 30 minutes before further starting attempts can be made to prevent damage to the starter motor.



Switch the ignition on and wait until the glow plug indicator goes off.

### Vehicles with manual transmission

**Note:** Do not touch the accelerator pedal.

1. Fully depress the clutch pedal.
2. Start the engine.

### Vehicles with automatic transmission

1. Select park or neutral.
2. Fully depress the brake pedal.
3. Start the engine.

## DIESEL PARTICULATE FILTER

The DPF forms part of the emissions reduction systems fitted to your vehicle. It filters harmful diesel particulates (soot) from the exhaust gas.

# Starting and Stopping the Engine

---

## Regeneration

### WARNING



Do not park or idle your vehicle over dry leaves, dry grass or other combustible materials. The DPF regeneration process creates very high exhaust gas temperatures and the exhaust will radiate a considerable amount of heat during and after DPF regeneration, and after you have switched the engine off. This is a potential fire hazard.

---

### CAUTION



Avoid running out of fuel.

---

**Note:** *During regeneration at low speed or engine idle, you may smell a hot metallic odour and could notice a clicking metallic sound. This is due to the high temperatures reached during regeneration and is normal.*

**Note:** *After you have switched your engine off the fans may continue to run for a short period of time.*

Unlike a normal filter which requires periodic replacement, the DPF has been designed to regenerate, or clean itself to maintain operating efficiency. The regeneration process takes place automatically. However, some driving conditions mean that you may need to support the regeneration process.

If you drive only short distances or your journeys contain frequent stopping and starting, where there is increased acceleration and deceleration, occasional trips with the following conditions will assist the regeneration process:

- Drive your vehicle at a constant speed, preferably on a main road or motorway, for up to 20 minutes.
- Avoid prolonged idling and always observe speed limits and road conditions.
- Do not switch off the ignition.
- Use a lower gear than normal to maintain a higher engine speed during this journey, where appropriate.

## SWITCHING OFF THE ENGINE

### Vehicles with a turbocharger

### CAUTION



Do not switch the engine off when it is running at high speed. If you do, the turbocharger will continue running after the engine oil pressure has dropped to zero. This will lead to premature turbocharger bearing wear.

---

Release the accelerator pedal. Wait until the engine has reached idle speed and then switch it off.

# Start-Stop

## PRINCIPLE OF OPERATION

### ECO system

#### WARNING



For vehicles with Start-Stop the battery requirement is different. It must be replaced by one of exactly the same specification as the original.

The system comprises Start-Stop and a speed limiter. Together they help reduce fuel consumption and CO2 emissions by shutting down the engine when the vehicle is idling, for example at traffic lights. The engine will restart when the driver presses the clutch pedal and when required by a vehicle system, for example to recharge the battery. The system will also limit the vehicle speed to 110 km/h (70 mph). See **Automatic speed limiter (ASL)** (page 106).

To obtain maximum benefit from the system, move the gear lever to the neutral position and release the clutch pedal during any stop of longer than three seconds.

## USING START-STOP

#### WARNINGS



The engine may restart automatically if required by the system. It will only automatically restart when one of the pedals is pressed. If no pedal is pressed, the Start-Stop indicator will flash and a message will be shown in the display.



Switch the ignition off before opening the bonnet or carrying out any maintenance.



Always switch the ignition off before leaving your vehicle, as the system may have shut down the engine but the ignition will still be live.

#### WARNINGS



The system may not function if you leave additional loads connected with the ignition off.

**Note:** The system only operates when the engine is warm and the outside temperature is between 0°C (32°F) and 40°C (104°F).

**Note:** If you stall the engine, and then depress the clutch pedal within five seconds, the system will automatically restart the engine.

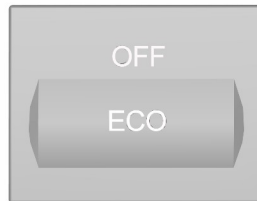
**Note:** The Start-Stop indicator will illuminate green when the engine shuts down. See **Warning Lamps and Indicators** (page 52).

**Note:** If the system detects a malfunction, it is deactivated. The **OFF** lamp on the **ECO** switch will illuminate continuously. If this remains on after an ignition cycle, have the system checked by a properly trained technician.

**Note:** If you have switched the system off, the switch will be illuminated.

**Note:** The system will be activated in conjunction with the speed limiter. See **Automatic speed limiter (ASL)** (page 106).

## Switching the system on and off



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# Start-Stop

The system is on by default. To switch the system off, press the switch in the instrument panel. The system will only be de-activated for the current ignition cycle. To turn it on, press the switch again. For item location. See **At a Glance** (page 9).

## To stop the engine

1. Stop the vehicle.
2. Move the gear lever to the neutral position.
3. Release the clutch pedal.
4. Release the accelerator pedal.

The system may not shut down the engine under certain conditions, for example:

- Low battery voltage.
- The outside temperature is too low or too high.
- The driver's door has been opened.
- Low engine operating temperature.
- If a road speed of 5 km/h (3 mph) has not been exceeded.
- The vehicle is on a steep gradient.
- The heated windscreen or heated rear window is switched on.
- During regeneration of the Diesel Particulate Filter.

## To re-start the engine

**Note:** *The gear lever must be in the neutral position. If the gear lever is not in neutral, the Start-Stop indicator will flash and a message will be shown in the display.*

Depress the clutch pedal.

## WARNING



The engine may restart automatically if required by the system. It will only automatically restart when one of the pedals is pressed. If no pedal is pressed, the Start-Stop indicator will flash and a message will be shown in the display.


The system may automatically restart the engine under certain conditions, for example:


- Low battery voltage.
- The heated windscreen or heated rear window is switched on.
- The vehicle has started moving (e.g. rolling downhill).

# Fuel and Refuelling

## SAFETY PRECAUTIONS


### WARNINGS

 Stop refuelling after the fuel nozzle stops the second time. Additional fuel will fill the expansion space in the fuel tank which could lead to fuel overflowing. Fuel spillage could be hazardous to other road users.

 Do not use any kind of flames or heat near the fuel system. The fuel system is under pressure. There is a risk of injury if the fuel system is leaking.

## FUEL QUALITY - PETROL

### CAUTION

 Do not use leaded petrol or petrol with additives containing other metallic compounds (e.g. manganese-based). They could damage the emission system.


**Note:** *We recommend that you use only high quality fuel without additives or other engine treatments.*

Use minimum 95 octane unleaded petrol that meets the specification defined by EN 228, or the equivalent national specification.



Your vehicle is suitable for use with ethanol blends up to 10% (E5 and E10).

## FUEL QUALITY - DIESEL

### WARNING

 Do not mix diesel with oil, petrol or other liquids. This could cause a chemical reaction.

### CAUTIONS

-  Do not add kerosene, paraffin or petrol to diesel. This could cause damage to the fuel system.
-  Use diesel that meets the specification defined by **EN 590**, or the relevant national specification.

**Note:** *We recommend that you use only high quality fuel.*

**Note:** *The use of additives or other engine treatments not approved by Ford is not recommended.*


**Note:** *We do not recommend the prolonged use of additives intended to prevent fuel waxing.*

### Long-term storage

Most diesel fuels contain bio-diesel, it is recommended to fill the tank with purely mineral diesel (where available) or add an anti-oxidant prior to long-term storage of your vehicle exceeding two months. Your dealer can help you with a suitable anti-oxidant.


## CATALYTIC CONVERTER

### WARNING

 Do not park or idle your vehicle over dry leaves, dry grass or other combustible materials. The exhaust will radiate a considerable amount of heat during use, and after you have switched the engine off. This is a potential fire hazard.

### Driving with a catalytic converter

### CAUTIONS

-  Avoid running out of fuel.

# Fuel and Refuelling

## CAUTIONS

- ⚠ Do not crank the engine for long periods.
- ⚠ Do not run the engine when a spark plug lead is disconnected.
- ⚠ Do not push-start or tow-start your vehicle. Use booster cables. See **Jump-Starting the Vehicle** (page 141).
- ⚠ Do not switch the ignition off when driving.

## FUEL FILLER FLAP

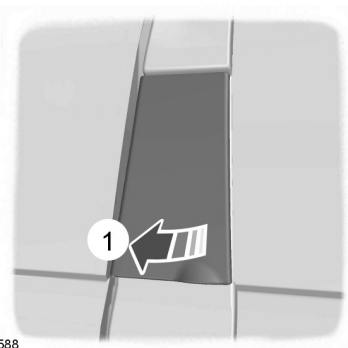
### WARNINGS

- ⚠ Take care when refuelling to avoid spilling any residual fuel from the fuel pipe nozzle.
- ⚠ We recommend that you wait at least 10 seconds before removing the fuel pipe nozzle to allow any residual fuel to drain into the fuel tank.

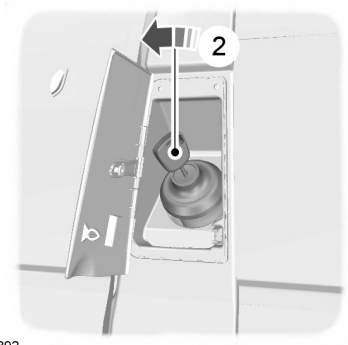
### CAUTION

- ⚠ If you use a high pressure spray to wash your vehicle, only spray the fuel filler flap briefly from a distance not less than 20 centimetres (8 inches).

**Note:** *It is normal to hear a hissing noise when you remove the filler cap.*



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## REFUELLING

### CAUTION

- ⚠ Do not attempt to start the engine if you have filled the fuel tank with the incorrect fuel. This could damage the engine. Have the system checked by a properly trained technician immediately.

# Fuel and Refuelling

## FUEL CONSUMPTION

The CO2 and fuel consumption figures are derived from laboratory tests according to EEC Directive 80/1268/EEC and subsequent amendments and are carried out by all vehicle manufacturers.

They are intended as a comparison between makes and models of vehicles. They are not intended to represent the real world fuel consumption you may get from your vehicle. Real world fuel consumption is governed by many factors including; driving style, high speed driving, stop/start driving, air conditioning usage, the accessories fitted and towing etc.

Your Ford dealer can give you advice on improving your fuel consumption.

## TECHNICAL SPECIFICATIONS

### Fuel Consumption Figures

Variant	Urban	Extra-Urban	Combined	CO2 Emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 4.78	11.2 (25.2) - 11.5 (24.6)	7.5 (37.7) - 7.9 (35.8)	8.9 (31.9) - 9.2 (30.6)	234 - 244
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 3.73, 6-speed manual transmission, with DPF	10.8 (26.2) - 11.0 (25.7)	7.2 (39.2) - 7.4 (38.2)	8.5 (33.1) - 8.7 (32.4)	225 - 230
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 5.11	12.0 (23.5) - 12.4 (22.8)	8.0 (35.3) - 8.4 (33.6)	9.5 (29.8) - 9.9 (28.6)	250 - 261
Kombi 2.4L DuraTorq-TDCi 74kW (100 PS), Axle ratio: 4.27, 6-speed manual transmission, with DPF	12.2 (23.2) - 12.4 (22.8)	8.1 (34.9) - 8.3 (34.0)	9.6 (29.4) - 9.8 (28.8)	254 - 259
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 3.73, 6-speed manual transmission, non DPF	10.6 (26.7) - 10.7 (26.4)	7.3 (38.7) - 7.4 (38.2)	8.5 (33.2) - 8.6 (32.8)	225 - 227

## Fuel and Refuelling

Variant	Urban	Extra-Urban	Combined	CO2 Emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 3.73, 6-speed manual transmission, with DPF	10.9 (25.8) - 11.1 (25.4)	7.1 (39.8) - 7.3 (38.7)	8.5 (33.2) - 8.7 (32.4)	225 - 230
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 4.27, 6-speed manual transmission, non DPF	12.6 (22.4) - 12.8 (22.1)	7.9 (35.8) - 8.0 (35.3)	9.6 (29.4) - 9.8 (28.8)	254 - 258
Kombi 2.4L DuraTorq-TDCi 85kW (115 PS), Axle ratio: 4.27, 6-speed manual transmission, with DPF	12.5 (22.6) - 12.7 (22.2)	7.9 (35.8) - 8.1 (34.9)	9.6 (29.4) - 9.8 (28.8)	253 - 259
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 3.73, 6-speed manual transmission, non DPF	11.4 (24.8) - 11.5 (24.6)	7.6 (37.2) - 7.8 (36.2)	9.0 (31.4) - 9.2 (30.8)	238 - 242
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 3.73, 6-speed manual transmission, with DPF	11.4 (24.8) - 11.6 (24.4)	7.6 (37.2) - 8.0 (35.3)	9.0 (31.4) - 9.3 (30.3)	238 - 246
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 4.27, 6-speed manual transmission, non DPF	12.8 (22.1) - 12.9 (21.9)	8.1 (34.9) - 8.3 (34.0)	9.8 (28.7) - 10.0 (28.3)	260 - 264
Kombi 2.4L DuraTorq-TDCi 103kW (140 PS), Axle ratio: 4.27, 6-speed manual transmission, with DPF	12.8 (22.1) - 13.1 (21.6)	8.1 (34.9) - 8.5 (33.2)	9.8 (28.7) - 10.2 (27.7)	260 - 269
Kombi 3.2L DuraTorq-TDCi, 147kW (200PS), Axle ratio: 3.58, 6-speed manual transmission	12.9 (21.9) - 13.0 (21.7)	7.9 (35.7) - 8.0 (35.2)	9.8 (29.0) - 9.9 (28.7)	258 - 260
Kombi 3.2L DuraTorq-TDCi, 147kW (200PS), Axle ratio: 4.10, 6-speed manual transmission	14.4 (19.6) - 14.5 (19.5)	8.4 (33.6) - 8.5 (33.2)	10.6 (26.6) - 10.7 (26.4)	280 - 283

# Fuel and Refuelling

## Rear wheel drive - M1

### Fuel Consumption Figures

Variant	Urban	Extra-Urban	Combined	CO2 Emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS) - (Puma), Axle ratio: 3.91, Stage V with Start-Stop	9.9 (28.6) - 10.1 (28)	7.1 (39.8) - 7.2 (39.2)	8.1 (34.9) - 8.3 (34)	214 - 219
2.2L Duratorq-TDCi (74kW/100PS) - (Puma), Axle ratio: 3.58, Stage V with Start-Stop	9.2 (30.8) - 9.4 (30.1)	6.9 (40.9) - 7 (40.4)	7.7 (36.7) - 7.9 (35.7)	204 - 209
2.2L Duratorq-TDCi (74kW/100PS) - (Puma), Axle ratio: 3.58, Stage V without Start-Stop	9.7 (29.1) - 9.9 (28.6)	6.9 (40.9) - 7 (40.4)	7.9 (35.7) - 8.1 (34.9)	209 - 214
2.2L Duratorq-TDCi (92kW/125PS) - (Puma), Axle ratio: 3.31, Stage V with Start-Stop	8.5 (33.1) - 8.7 (32.4)	6.7 (42.2) - 6.8 (41.5)	7.3 (38.7) - 7.5 (37.7)	194 - 199
2.2L Duratorq-TDCi (92kW/125PS) - (Puma), Axle ratio: 3.31, Stage V without Start-Stop	9.1 (31) - 9.3 (30.4)	6.7 (42.2) - 6.8 (41.5)	7.6 (37.2) - 7.7 (36.7)	199 - 204
2.2L Duratorq-TDCi (92kW/125PS) - (Puma), Axle ratio: 3.91, Stage V without Start-Stop	10.3 (27.4) - 10.6 (26.7)	7.1 (39.8) - 7.2 (39.2)	8.3 (34) - 8.5 (33.1)	219 - 224

## Fuel and Refuelling

Variant	Urban	Extra-Urban	Combined	CO2 Emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS) - (Puma), Axle ratio: 3.91, Stage IV without Start-Stop	10.3 (27.4) - 10.6 (26.7)	7.1 (39.8) - 7.2 (39.2)	8.3 (34) - 8.5 (33.1)	219 - 224
2.2L Duratorq-TDCi (74kW/100PS) - (Puma), Axle ratio: 3.58, Stage IV without Start-Stop	9.7 (29.1) - 9.9 (28.6)	6.9 (40.9) - 7 (40.4)	7.9 (35.7) - 8.1 (34.9)	209 - 214
2.2L Duratorq-TDCi (92kW/125PS) - (Puma), Axle ratio: 3.31, Stage IV without Start-Stop	9.1 (31) - 9.3 (30.4)	6.7 (42.2) - 6.8 (41.5)	7.6 (37.2) - 7.7 (36.7)	199 - 204

# Fuel and Refuelling

## Front wheel drive - M1

### Fuel Consumption Figures

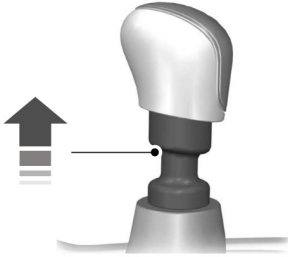
Variant	Urban	Extra-Urban	Combined	CO2 Emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.36, Stage V with Start-Stop	8.1 (34.9) - 8.3 (34)	6.3 (44.8) - 6.5 (43.5)	7 (40.4) - 7.2 (39.2)	184 - 189
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.93, Stage V with Start-Stop	8.5 (33.1) - 8.7 (32.4)	6.4 (44.1) - 6.6 (42.8)	7.2 (39.2) - 7.4 (38.2)	189 - 194
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.36, Stage V without Start-Stop	8.6 (32.8) - 8.8 (32.1)	6.3 (44.8) - 6.5 (43.5)	7.2 (39.2) - 7.4 (38.2)	189 - 194
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.93, Stage V without Start-Stop	9 (31.4) - 9.2 (30.8)	6.4 (44.1) - 6.6 (42.8)	7.4 (38.2) - 7.5 (37.7)	194 - 199
2.2L Duratorq-TDCi (74kW/100PS), (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.36, Stage IV with Start-Stop	8.7 (32.4) - 8.8 (32.1)	6.3 (44.8) - 6.5 (43.5)	7.2 (39.2) - 7.4 (38.2)	189 - 194
2.2L Duratorq-TDCi (92kW/125PS), (103kW/140PS) - (Puma), Axle ratio: 4.93, Stage IV with Start-Stop	9 (31.4) - 9.2 (30.8)	6.4 (44.1) - 6.6 (42.8)	7.4 (38.2) - 7.5 (37.7)	194 - 199

# Transmission

## MANUAL TRANSMISSION

### CAUTION

- ⚠ Do not engage reverse gear when the vehicle is moving. This can cause damage to the transmission.



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On some vehicles it is necessary to raise the collar whilst selecting reverse gear.

## ALL-WHEEL DRIVE

### CAUTION

- ⚠ A vehicle fitted with AWD must be recovered with either **ALL** wheels on the ground or **ALL** wheels off the ground. See **Vehicle recovery** (page 125).

If the AWD indicator flashes when you are driving, this indicates a malfunction. During a malfunction, the system switches off. Have the system checked by a properly trained technician.

### Automatic mode

The AWD system, fitted to certain rear-wheel drive variants, will automatically provide driving torque to the front wheels when road conditions become slippery with rain, snow or ice etc.

When AWD is no longer required the system automatically disengages and normal rear-wheel drive functionality is resumed.

### Manual mode

**Note:** *Your vehicle may exhibit some unusual driving characteristics if manual mode is left activated when driving on normal road surfaces.*

**Note:** *The manual mode will be automatically deactivated when you exceed a speed of 100 km/h (62 mph).*

If additional traction is required when moving off on an excessively slippery road surface press the AWD switch. For item location. See **At a Glance** (page 9). The switch will illuminate.

Press the switch again to return to the automatic mode.

# Brakes

---

## PRINCIPLE OF OPERATION

### Disc brakes

Wet brake discs result in reduced braking efficiency. Dab the brake pedal when driving from a car wash to remove the film of water.

### ABS

#### WARNING



The ABS does not relieve you of your responsibility to drive with due care and attention.

The ABS helps you to maintain full steering and directional stability when you brake heavily in an emergency, by preventing the road wheels from locking.

## HINTS ON DRIVING WITH ANTI-LOCK BRAKES

**Note:** *When the system is operating, the brake pedal will pulse and may travel further. Maintain pressure on the brake pedal. You may also hear a noise from the system. This is normal.*

The ABS will not eliminate the risks when:

- you drive too close to the vehicle in front of you
- the vehicle is aquaplaning
- you take corners too fast
- the road surface is poor.

## PARKING BRAKE

#### WARNING



Vehicles with an automatic transmission should always be left with the selector lever in position **P (Park)**.

- Press the foot brake pedal firmly.
- Pull the parking brake lever up smartly to its fullest extent.
- Do not press the release button while pulling the lever up.
- If your vehicle is parked on a hill and facing uphill, select first gear or **P (Park)** and turn the steering wheel away from the kerb.
- If your vehicle is parked on a hill and facing downhill, select reverse gear or **P (Park)** and turn the steering wheel towards the kerb.

To release the parking brake, press the brake pedal firmly, pull the lever up slightly, depress the release button and push the lever down.

# Stability Control

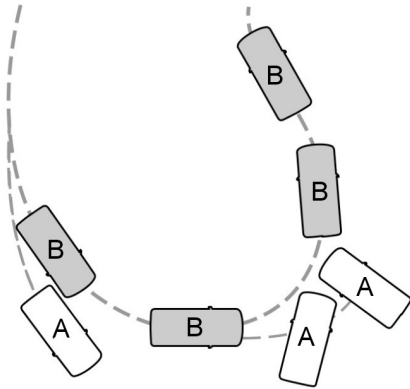
## PRINCIPLE OF OPERATION

### Electronic stability programme (ESP)

#### WARNING



The system does not relieve you of your responsibility to drive with due care and attention.



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- A Without ESP
- B With ESP

The system supports stability when the vehicle starts to slide away from your intended path. This is performed by braking individual wheels and reducing engine torque as needed.

The system also provides an enhanced traction control function by reducing engine torque if the wheels spin when you accelerate. This improves your ability to pull away on slippery roads or loose surfaces, and improves comfort by limiting wheel spin in hairpin bends.

### Stability control (ESP) warning lamp

While driving, it flashes during activation of the system. See **Warning Lamps and Indicators** (page 52).

### Emergency brake assist

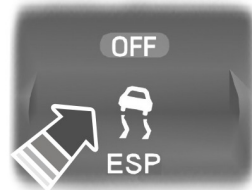
#### WARNING



The system does not relieve you of your responsibility to drive with due care and attention.

The system will detect when you brake heavily by measuring the rate at which you press the brake pedal. It will provide maximum braking efficiency as long as you press the pedal. The system can reduce stopping distances in critical situations.

## USING STABILITY CONTROL



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With vehicle speed below 60 km/h (37 mph), press and hold the switch for one second. The switch will illuminate.

**Note:** If you turn the system off, the system will reactivate temporarily if the brakes are applied during a vehicle slide. The ESP warning lamp will flash in this instance.

**Note:** If you turn the system off, the system will automatically reactivate if your vehicle speed goes above 60 km/h (37 mph).

Press the switch again to turn the system on. The system will be switched on automatically every time you switch the ignition on.

# Stability Control

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For item location: See **At a Glance** (page 9).

# Traction Control

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## PRINCIPLE OF OPERATION

The traction control system improves traction when one wheel starts to spin at vehicle speeds up to 40 km/h (25 mph). If a wheel starts to spin, the traction control system varies the pressure to the brake of that wheel until it stops spinning.

## USING TRACTION CONTROL

The traction control system is operational when you switch the ignition on.

The traction control indicator will flash when the system is operating. Slowly accelerate until the spinning wheel regains its traction.

The traction control system will stop working temporarily if used excessively within a short period of time. This is normal and has no effect on the brake system.

The traction control system will continue to operate when ESP is switched off. The warning lamp in the instrument cluster will **not** flash in this case.

# Hill Start Assist

---

## PRINCIPLE OF OPERATION

The system makes it easier to pull away when the vehicle is on a slope without the need to use the parking brake.

When the system is active, the vehicle will remain stationary on the slope for a short time after you release the brake pedal. During this time, you have time to move your foot from the brake to the accelerator pedal and pull away. The brakes are released automatically once the engine has developed sufficient drive to prevent the vehicle from rolling down the slope. This is an advantage when pulling away on a slope, for example from a car park ramp, traffic lights or when reversing uphill into a parking space.

### WARNING



The system does not replace the parking brake. When you leave the vehicle, always apply the parking brake and select first or reverse gear.

---

## USING HILL START ASSIST

The system is activated automatically when the vehicle is stopped on a slope greater than 3%. The system operates with the vehicle facing downhill if reverse gear is selected and with the vehicle facing uphill if any forward gear is selected.

### Activating the system

#### WARNINGS



You must remain in the vehicle once you have activated the system.



The system is active only if the green lamp illuminates in the instrument cluster. During all times you are responsible for controlling the vehicle, supervising the system and intervening, if required.

---

You can activate the system only if the following conditions have been met:

- The engine is running.
- All doors (including cargo doors) are fully closed.
- The parking brake is fully disengaged.
- No failure mode is present.

To activate the system:

1. Press the brake and clutch pedals to bring the vehicle to a complete standstill. Keep the brake and clutch pedals depressed.
2. If the sensors detect that the vehicle is on a slope the system will be activated automatically and the green lamp will illuminate in the instrument cluster.
3. When you remove your foot from the brake pedal, the vehicle will remain on the slope without rolling away for approximately two to three seconds. This hold time will automatically be extended if you are in the process of driving off.
4. Drive off in the normal manner. The brakes will be released automatically.

### WARNING



If the engine is revved excessively, or if a malfunction is detected when the system is active, the system will be deactivated and the green lamp will go out.

---

### Deactivating the system

To deactivate the system, perform **one** of the following:

- Apply the parking brake.
- Open any door (including cargo doors).
- Drive off uphill without re-applying the brake.
- Wait for two to three seconds until the system deactivates automatically.

# Hill Start Assist

---

- If the system is active in a forward gear, select reverse gear.
- If the system is active in neutral, release the clutch pedal.
- If the system is active in reverse gear, select neutral.

The green lamp will go out.

## **Disabling the system**

Your dealer can permanently disable this function if required.

# Parking Aids

## PRINCIPLE OF OPERATION

### WARNING



The parking aid does not relieve you of your responsibility to drive with due care and attention.

### CAUTIONS



Vehicles fitted with a trailer tow module not approved by us may not correctly detect obstacles.



The sensors may not detect objects in heavy rain or other conditions that cause disruptive reflections.



The sensors may not detect objects with surfaces that absorb ultrasonic waves.



The parking aid does not detect obstacles moving away from the vehicle. They will only be detected shortly after they start to move towards the vehicle again.



Take particular care when reversing with a tow ball arm or rear fitted accessories e.g. a bicycle carrier, as the rear parking aid will only indicate the distance from the bumper to the obstacle.



If you use a high pressure spray to wash your vehicle, only spray the sensors briefly from a distance not less than 20 centimetres (8 inches).

**Note:** On vehicles fitted with a tow ball arm, the parking aid is deactivated automatically when any trailer lamps (or lighting boards) are connected to the 13-pin socket via a trailer tow module we have approved.

**Note:** Keep the sensors free from dirt, ice and snow. Do not clean with sharp objects.

**Note:** The parking aid may emit false tones if it detects a signal using the same frequency as the sensors or if the vehicle is fully laden.

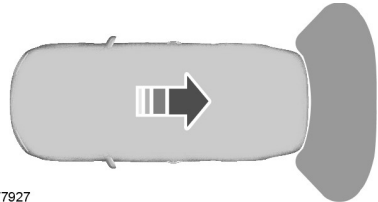
**Note:** The outer sensors may detect the side walls of a garage. If the distance between the outer sensor and the side wall remains constant for three seconds, the tone will switch off. As you continue, the inner sensors will detect rearward objects.

## PARKING AID

### WARNING



The parking aid does not relieve you of your responsibility to drive with due care and attention.



E77927

The parking aid is automatically activated when you select reverse gear with the ignition switched on.

You will hear an intermittent tone at a distance of approximately 150 centimetres (59 inches) between the obstacle and rear bumper and approximately 50 centimetres (20 inches) to the side. Decreasing the distance accelerates the intermittent tone. A continuous tone will start at a distance of less than 30 centimetres (11 inches) to the rear bumper.

**Note:** If a high pitch tone is heard for three seconds, this indicates a malfunction. The system will be disabled. Have the system checked by a properly trained technician.

# Rear view camera

## PRINCIPLE OF OPERATION

The camera is a visual aid for use when reversing.

### WARNING



The system does not relieve you of your responsibility to drive with due care and attention.

### CAUTIONS



If you use a high pressure spray to wash your vehicle, only spray the camera briefly from a distance not less than 20 centimetres (8 inches).



Do not apply pressure to the camera.

**Note:** Keep the camera free from dirt, ice and snow. Do not clean with sharp objects, degreaser, wax or organic products. Use only a soft cloth.

During operation, guide lines appear in the display which represent your vehicle's path and approximate distance from rearward objects.

## REAR VIEW CAMERA

### WARNINGS



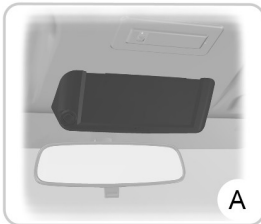
The operation of the rear view camera may vary depending on the ambient temperature, vehicle and road conditions.



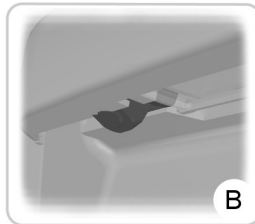
The distances shown in the display may differ from the actual distance.



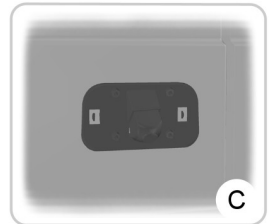
Do not place objects in front of the camera.



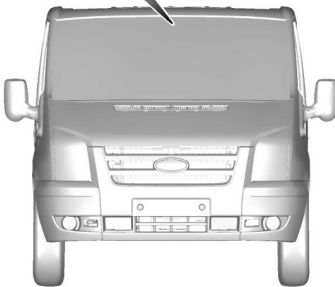
A



B



C



E95058


# Rear view camera

---

- A Rear view camera display
- B Rear view camera - liftgate
- C Rear view camera - cargo door

## Activating the rear view camera

### CAUTION

-  The camera may not detect objects that are close to the vehicle.



With the ignition switched on, engage the reverse gear. The image is displayed on the screen.

The camera may not operate correctly in the following conditions:

- Dark areas.
- Intense light.
- If the ambient temperature increases or decreases rapidly.
- If the camera is wet, for example in rain or high humidity.
- If the camera's view is obstructed, for example by mud.

## Using the display

### CAUTIONS

-  Obstacles above the camera position will not be shown. Inspect the area behind your vehicle if necessary.
-  Marks are for general guidance only, and are calculated for vehicles in maximum load conditions on an even road surface.

**Note:** *When reversing with a trailer, the lines on the screen show the vehicle direction and not the trailer.*

The lines show a projected vehicle path and the distance from the exterior mirrors and rear bumper.

# Rear view camera

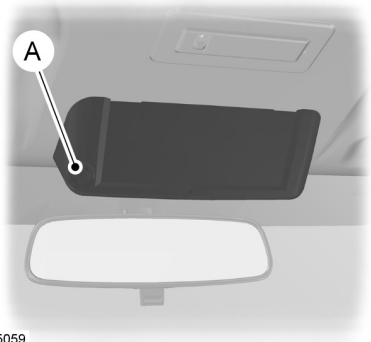


E100159

- A Exterior mirror clearance - 0.1 metre (4 inches)
- B 0.5 metre (20 inches)
- C 1 metre (39 inches)

- D 2 metres (79 inches)
- E 3 metres (118 inches)

## Switching the rear view camera on and off



E95059

- A On and off button

Press button **A** to manually switch the system off.

**Note:** The button will only function whilst the reverse gear is selected and the ignition is on.

## Deactivating the rear view camera

**Note:** Disengage reverse gear. The display will stay on for a short period before switching off.

# Cruise Control

## PRINCIPLE OF OPERATION

Cruise control allows you to control your speed using the switches on the steering wheel. You can use cruise control when you exceed 30 km/h (20 mph).

## USING CRUISE CONTROL

### WARNING



Do not use cruise control in heavy traffic, on twisty roads or when the road surface is slippery.

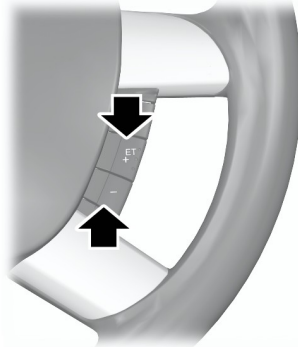
## Switching cruise control on



E75456

**Note:** The system is ready for you to set a speed.

## Setting a speed



E75452

Press to store and maintain your current speed. The cruise control indicator will illuminate. See **Warning Lamps and Indicators** (page 52).

## Changing the set speed

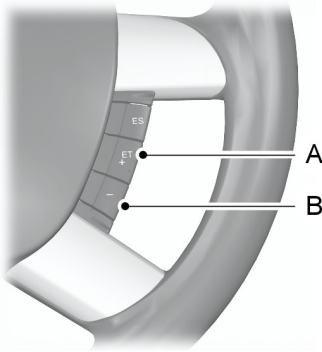
### WARNING



When you are going downhill, your speed may increase above the set speed. The system will not apply the brakes. Change down a gear and press the **SET-** switch to assist the system in maintaining the set speed.

**Note:** If you accelerate by pressing the accelerator pedal, the set speed will not change. When you release the accelerator pedal, you will return to the speed that you previously set.

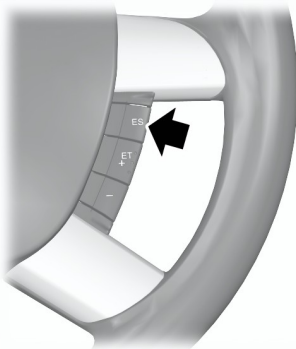
# Cruise Control



E95393

- A Accelerate
- B Decelerate

## Cancelling the set speed

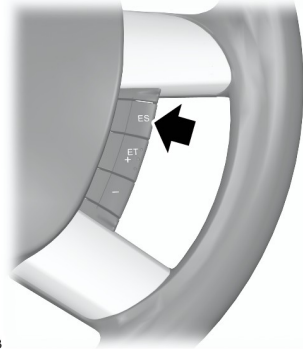


E75453

Press the brake pedal or the **RES** switch.

**Note:** *The system will no longer control your speed. The cruise control indicator will not illuminate but the system will retain the speed that you previously set.*

## Resuming the set speed



E75453

The cruise control indicator will illuminate and the system will attempt to resume the speed that you previously set.

## Switching cruise control off



E75455

The system will not retain the speed that you previously set. The cruise control indicator will not illuminate.

# Automatic speed limiter (ASL)

---

## PRINCIPLE OF OPERATION

### Engine speed limiter

Engine speed is limited to protect the engine.

### Vehicle speed limiter

The vehicle speed limiter prevents you from driving faster than a programmed speed. See the label on the driver side sun visor for further information.

### Vehicles with a diesel engine

You can have the maximum speed of your vehicle limited to a predefined value, providing it is within legal limits. Ask your dealer for further information.

### Vehicles with Start-Stop

**Note:** *If the vehicle has a fixed speed limit lower than 110 km/h (70 mph), this will override the switchable speed limiter associated with Start-Stop.*

When Start-Stop is activated your vehicle speed is limited to 110 km/h (70 mph).



E140218

The system is on by default. To deactivate this speed limit, press the **ECO** switch. The system will only be de-activated for the current ignition cycle. To turn it on, press the switch again. For item location. See **At a Glance** (page 9).

# Load Carrying

---

## GENERAL INFORMATION

### WARNINGS



Use load securing straps to an approved standard, e.g. DIN.



Make sure that you secure all loose items properly.



Place luggage and other loads as low and as far forward as possible within the luggage or loadspace.



Do not drive with the tailgate or rear door open. Exhaust fumes may enter the vehicle.



Do not exceed the maximum front and rear axle loads for your vehicle. See **Vehicle identification** (page

171).

---

### CAUTIONS



Do not allow items to contact the rear windows.



Do not use any abrasive materials to clean the interior of the rear windows.



Do not install stickers or labels to the interior of the rear windows.

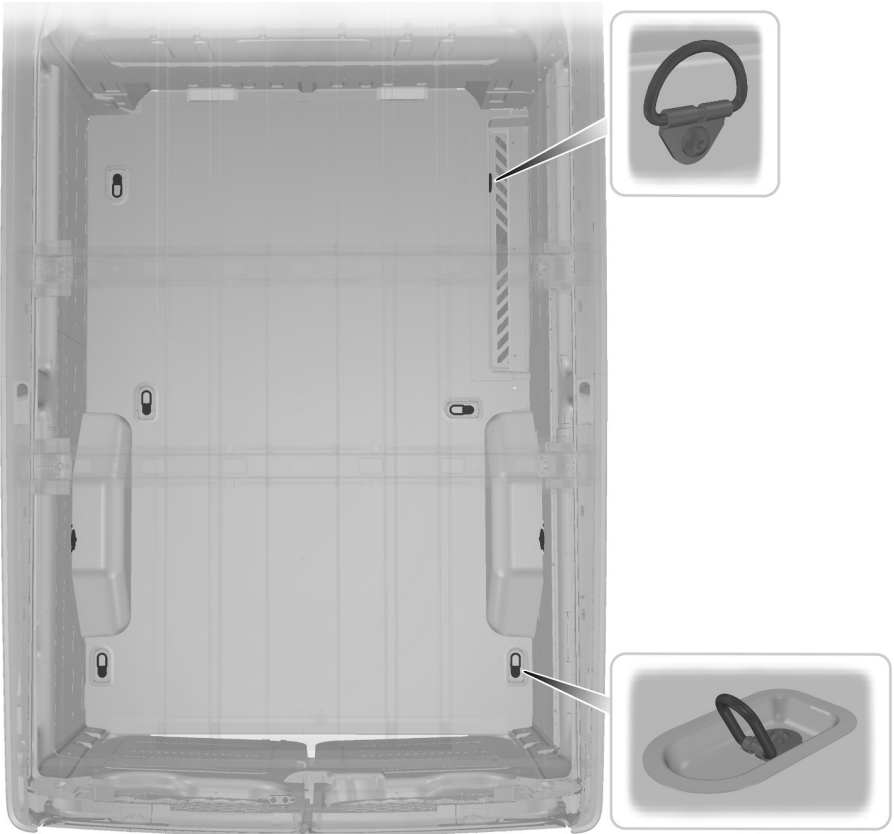
---

## LOAD RETAINING FIXTURES

**Note:** *The number of load retaining fixtures may vary depending on your vehicle model.*

# Load Carrying

## Securing cargo

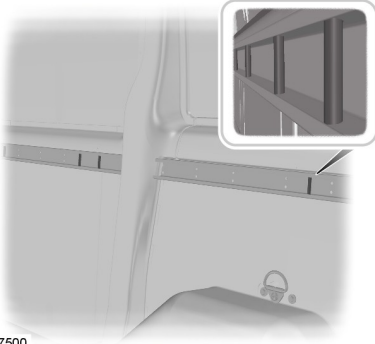


E75510

# Load Carrying

## Supplementary retaining fixtures

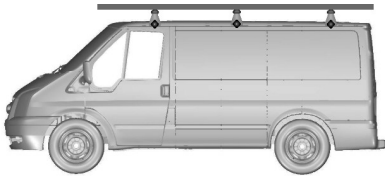
### Mid-height cargo rail



E77500


## ROOF RACKS AND LOAD CARRIERS


### Roof rack





E71359

### WARNINGS



 No roof load is permitted on bus models with a long wheel base, single rear wheel, 13, 14 or 15 seats and a 200PS diesel engine.

 No roof load is permitted on bus models with a long wheel base, single rear wheel, 13, 14 or 15 seats and a 140PS diesel engine with all-wheel drive.

### WARNINGS

-  If you use a roof rack, the fuel consumption of your vehicle will be higher and you may experience different driving characteristics.
-  Read and follow the manufacturer's instructions when you are fitting a roof rack.

### CAUTIONS

-  Do not exceed the maximum axle load for your vehicle. See **Vehicle identification** (page 171).
-  Do not exceed the maximum permissible roof load of 100 kilogrammes, or 50 kilogrammes for Euroline and Nugget vehicles (including the roof rack).

Check the security of the roof rack and its fittings as follows:

- before starting
- after driving 50 kilometres (30 miles)
- at 1 000 kilometres (600 miles) intervals.

### Vehicles with an emergency exit

See **Emergency Exit** (page 112).

# Towing

## TOWING A TRAILER

### WARNINGS



Do not exceed the maximum gross train weight stated on the vehicle identification plate. See **Vehicle identification** (page 171).



Do not exceed a speed of 90 km/h (55 mph) when towing with a laden weight greater than 2 000kg.

### CAUTION



Do not exceed the maximum permissible nose weight, i.e. vertical weight on the tow ball, of 112 kilogrammes (247 pounds) for all vehicles except double chassis cab and van, or 140 kilogrammes (309 pounds) for double chassis cab and van.

**Note:** *Not all vehicles are suitable or approved to have tow bars fitted. Check with your dealer first.*

Place loads as low and central to the axle(s) of the trailer as possible. If you are towing with an unladen vehicle, the load in the trailer should be placed toward the nose, within the maximum nose load, as this gives the best stability.

The stability of the vehicle to trailer combination is very much dependant on the quality of the trailer.

The maximum vehicle and trailer weights represent technically binding values for gradients up to 12 % and at an altitude of 1 000 metres above sea level. In high altitude regions, thinner atmosphere can reduce engine performance so the following restrictions will apply:

In high altitude regions above 1 000 metres (3 281 feet), the stipulated maximum permitted gross train weight must be reduced by 10% for every additional 1 000 metres (3 281 feet).

## Steep gradients

### WARNING



The overrun brake on a trailer is not controlled by ABS.

Change down a gear before you reach a steep downhill gradient.

# Driving Hints

---

## RUNNING-IN

### Tyres

#### WARNING



New tyres need to be run-in for approximately 500 kilometres (300 miles). During this time, you may experience different driving characteristics.

---

### Brakes and clutch

#### WARNING



Avoid heavy use of the brakes and clutch if possible for the first 150 kilometres (100 miles) in town and for the first 1500 kilometres (1000 miles) on motorways.

---

### Engine

#### CAUTION



Avoid driving too fast during the first 1500 kilometres (1000 miles). Vary your speed frequently and change up through the gears early. Do not labour the engine.

---

## REDUCED ENGINE PERFORMANCE

Your vehicle can be driven briefly if the engine overheats, without damage to the engine. The engine will continue to operate with limited power. The distance you can travel depends on ambient temperature, vehicle load, and terrain.

If the needle moves to the upper limit position, the engine is overheating. See **Gauges** (page 50).

If the temperature continues to rise, the fuel supply to the engine will be reduced. The air conditioning (if fitted) will also be turned off and the engine cooling fan will operate.

#### CAUTION



Continued operation will increase the engine temperature, and cause the engine to shut down completely.

---

- Stop your vehicle as soon as possible.
- Immediately turn off the engine to prevent severe engine damage.
- Wait for the engine to cool down.
- Check the coolant level. See **Engine Coolant Check** (page 133).
- Have the vehicle checked by an expert immediately.

## COLD WEATHER PRECAUTIONS

The functional operation of some components and systems can be affected at temperatures below -30°C (-22°F).

# Roadside Emergencies

---

## FIRST AID KIT

### Bus

Space for a first aid kit is located underneath the second row seat.

### Van, Kombi, Chassis cab, Flatbed truck

Space for a first aid kit is located in the driver's side door bin.

## WARNING TRIANGLE

You will find a space for storing a warning triangle in driver side door bin.

## EMERGENCY EXIT

### WARNING



Make sure that the roof rack and its load do not obstruct the emergency exit. Ask your dealer for advice on roof racks suitable for your vehicle.

---

Break the glass with the hammer in an emergency.

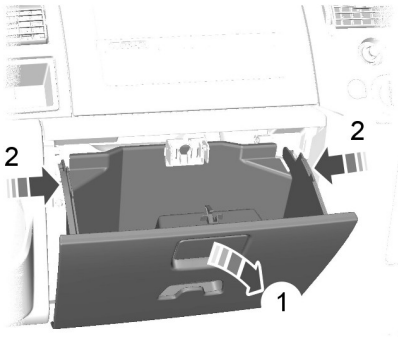
# Status after a collision

## FUEL SHUTOFF

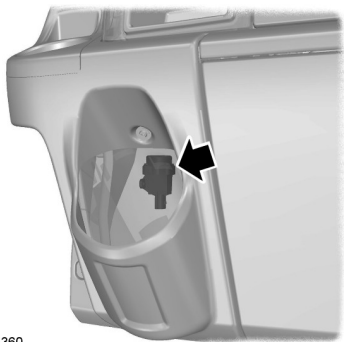
If you have an accident or a minor collision (e.g. collision when parking), the fuel cut-off switch may stop the fuel supply. The switch is located on the side panel in front of the passenger side front door.

### Accessing the switch

**Note:** When refitting, make sure you hear a click when engaging both clips.



E70869



E71360

## Resetting the switch

### WARNING



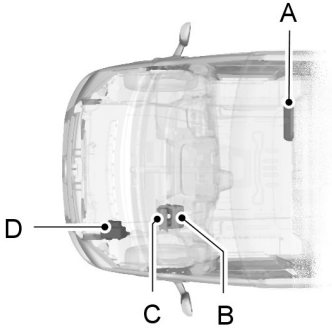
Do not reset the fuel cut-off switch if you see or smell fuel.

1. Switch the ignition off.
2. Check the fuel system for leaks.
3. Access the switch.
4. Press the top of the cut-off switch to reset. You will feel and hear a click.
5. Turn the key to position **II**. After a few seconds return the key to position **I**.
6. Check the fuel system again for leaks.

# Fuses

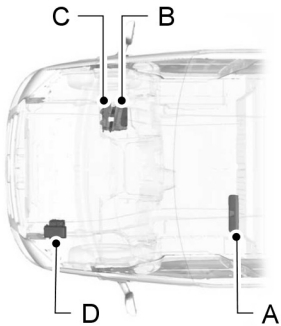
## FUSE BOX LOCATIONS

### Right-hand drive



E70864

### Left-hand drive



E91162

- A Pre-fuse box
- B Standard relay box
- C Passenger compartment junction box
- D Engine compartment junction box

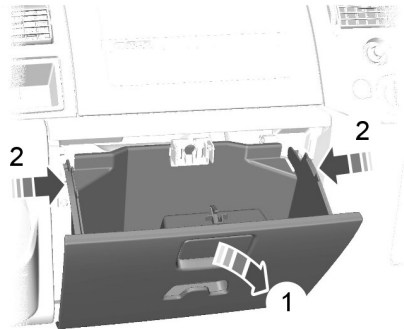
### Pre-fuse box

#### Driver seat



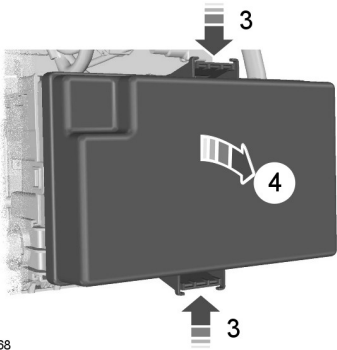
E70866

### Standard relay box



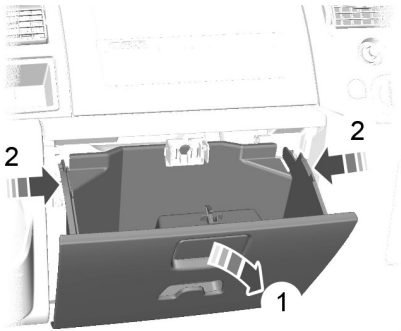
E70869

# Fuses

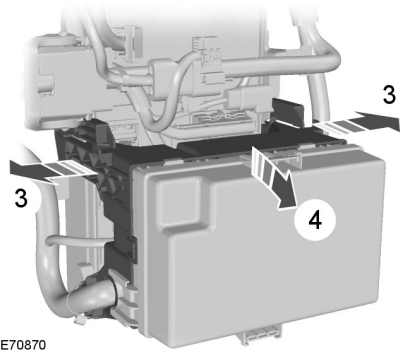


E70868

## Passenger junction box



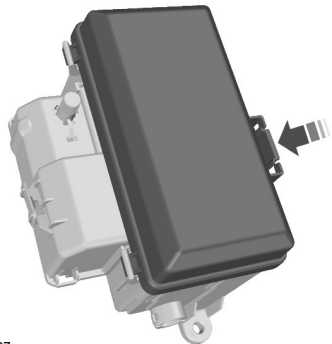
E70869



E70870

**Note:** When refitting, make sure you hear a click when engaging both clips.

## Engine junction box



E70867

For item location: See **Maintenance** (page 127).

# Fuses

## CHANGING A FUSE

### WARNINGS



Do not modify the electrical system of your vehicle in any way. Have repairs to the electrical system and the replacement of relays and high current fuses carried out by properly trained technicians.



Switch the ignition and all electrical equipment off before touching or attempting to change a fuse.

### CAUTION



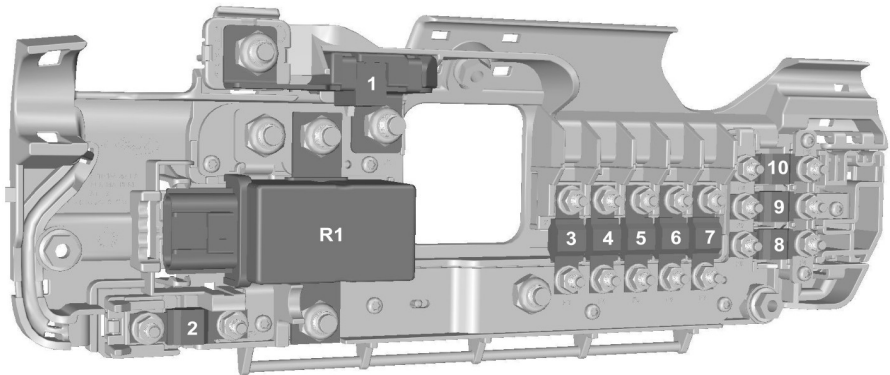
Fit a replacement fuse with the same rating as the one you have removed.

**Note:** You can identify a blown fuse by a break in the filament.

**Note:** All fuses, except high current fuses, are a push fit.

## FUSE SPECIFICATION CHART

### Pre-fuse box



E70871

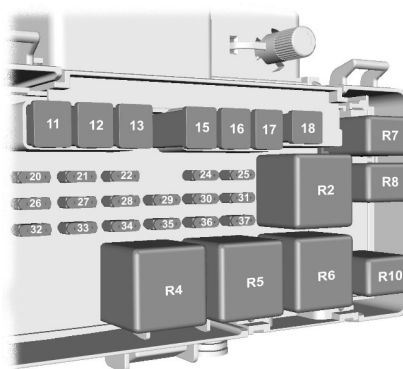
# Fuses

<b>Fuse</b>	<b>Ampere rating</b>	<b>Colour</b>	<b>Circuits protected</b>
1	350	grey	Starter motor and alternator
2	60	yellow	Passenger junction box power supply - start relevant / Passenger junction box KL15 for Start-Stop
3	100	blue	Engine junction box power supply - non-start relevant
4	40	green	Heated front screen right-hand side
5	100	blue	Standard relay box power supply - non-start relevant
6	40	green	Heated front screen left-hand side
7	60	yellow	Passenger junction box power supply - non-start relevant
8	60	yellow	Customer connection point
9	60	yellow	Customer connection point
10	60	yellow	Customer connection point

<b>Relay</b>	<b>Circuits switched</b>
R1	Second battery disconnect switch

# Fuses

## Engine junction box



E70872

Fuse	Ampere rating	Colour	Circuits protected
11	60	yellow	Engine cooling fan
12	30	pink	Trailer tow and trailer tow module power supply (KL30)
13	40	green	ABS and ESP pump
14	-	-	Not used
15	60	yellow	Glow plugs
16	60	yellow	Ignition relay (KL15 #3)
17	30	pink	Starter enable
18	40	green	Ignition feed (KL15) to Passenger junction box (vehicles without Start-Stop)
18	-	-	Not used (vehicles with Start-Stop)
19	-	-	Not used
20	10	red	ABS, ESP, steering angle sensor, YAW sensor supply (KL30)
21	25	natural	ABS and ESP valves and control unit
22	-	-	Not used

## Fuses

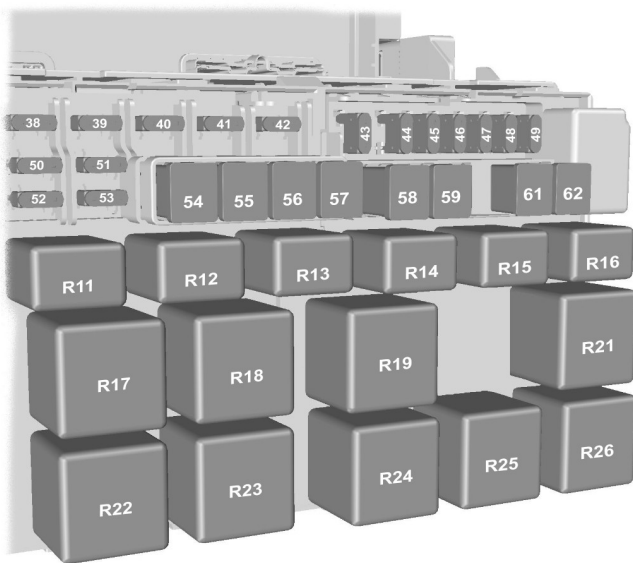
<b>Fuse</b>	<b>Ampere rating</b>	<b>Colour</b>	<b>Circuits protected</b>
23	-	-	Not used
24	5	tan	Fuel pump (without fuel-fired heater)
24	20	yellow	Fuel pump (with fuel-fired heater)
25	-	-	Not used
26	15	blue	PCM Power
27	5	tan	Fuel pump (with fuel-fired heater)
28	5	tan	T-MAF sensor
29	5	tan	Vaporiser glow plug monitoring
30	7.5		Sonic purge valve
31	15	blue	VAP pump/UEGO
32	20	yellow	Vaporiser glow plug
33	10	red	Reversing lamps
34	20	yellow	Trailer KL15 Power supply
35	-	-	Not used
36	10	red	Air conditioning clutch
37	-	-	Not used

<b>Relay</b>	<b>Circuits switched</b>
R2	Glow plugs
R3	Trailer tow (KL15)
R4	Starter enable
R5	Power feed (KL15 #4)
R6	Power feed (KL15 #3)
R7	Fuel pump

# Fuses

Relay	Circuits switched
R8	Vaporiser glow plug
R9	Not used
R10	Air conditioning clutch solenoid

## Standard relay box



E70873

Fuse	Ampere rating	Colour	Circuits protected
38	20	yellow	Rear window wiper
39	10	red	Front and rear air conditioning control
40	5	tan	Not used
41	5	tan	Tachograph

## Fuses

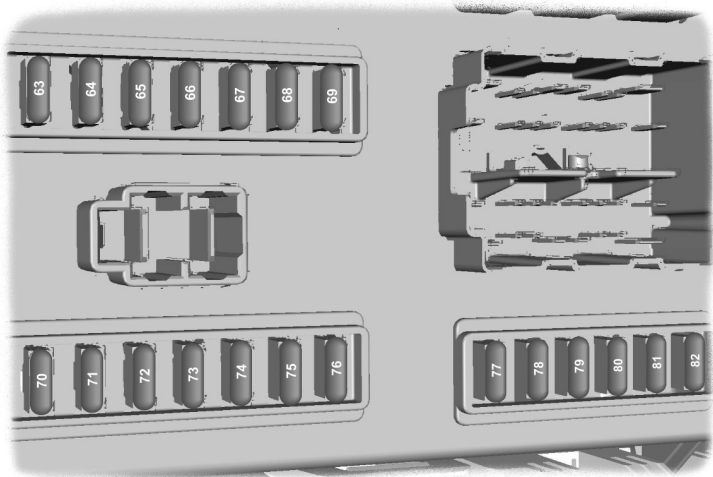
<b>Fuse</b>	<b>Ampere rating</b>	<b>Colour</b>	<b>Circuits protected</b>
42	5	tan	Headlamp levelling, master light switch (KL15)
43	20	yellow	Heated front seats
44	20	yellow	Horn
45	20	yellow	Auxiliary power point front
46	10	red	Heated door mirrors, if CAT 1 fitted
47	20	yellow	Cigar lighter
48	5	tan	Relay coils supply, power mirrors
49	20	yellow	Auxiliary power point rear
50	10	red	Main beam left-hand side
51	10	red	Main beam right-hand side
52	10	red	Dipped beam left-hand side
53	10	red	Dipped beam right-hand side
54	30	pink	Pre-fuse for dipped beam, main beam, daytime running lamps, tachograph, fuel-fired booster heater blower
55	40	green	Heater blower motor
56	20	yellow	Power windows
57	30	pink	Rear heater blower motor
58	30	pink	Front wiper motor
59	30	pink	Heated rear window, heated door mirrors
60	-	-	Not used
61	60	yellow	Ignition relay (KL15 #1)
62	60	yellow	Ignition relay (KL15 #2)

## Fuses

<b>Relay</b>	<b>Circuits switched</b>
R11	Headlamp dip beam
R12	Heated door mirrors (if CAT 1 alarm is fitted), power outlet (if CAT 1 alarm is not fitted)
R13	Headlamp main beam
R14	Horn
R15	Daytime running lamps
R16	Programmable fuel fired heater
R17	Heated rear windows and heated door mirrors (or heated rear window left-hand side if Cat 1 alarm is fitted)
R18	Heated rear window right-hand side if Cat 1 alarm is fitted
R19	Power feed (KL15 #2)
R20	PJB KL15 (Start-Stop only)
R21	Power feed (KL15 #1)
R22	Heated windscreen right-hand side
R23	Windscreen wiper high and low function
R24	Rear window wiper
R25	Windscreen wiper on and off function
R26	Heated windscreen left-hand side

# Fuses

## Passenger junction box



E70874

Fuse	Ampere rating	Colour	Circuits protected
63	5	tan	Rear parking aid, rain sensor
64	2	grey	Acceleration pedal demand sensor
65	15	blue	Brake lamp switch
66	5	tan	Instrument cluster, PATS supply, tachograph, instrument panel switch illumination
67	15	blue	Washer pump
68	10	red	Restraints control module
69	20	yellow	Exterior lamp switch (KL15)
70	20	yellow	Battery backed sounder
71	5	tan	Exterior lamp switch (KL30)
72	10	red	Battery saver supply, OBDII (KL30)
73	15	blue	Radio, navigation unit and phone supply

## Fuses

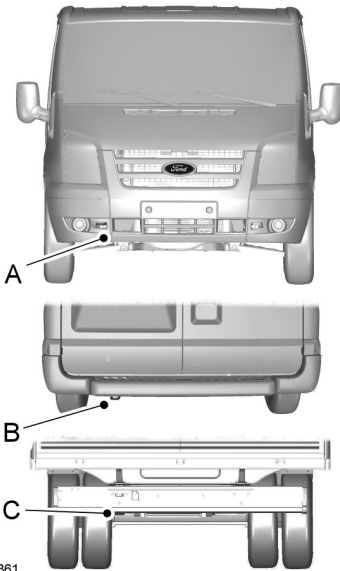
Fuse	Ampere rating	Colour	Circuits protected
74	5	tan	Instrument cluster, fuel-fired booster heater timer, remote keyless entry supply, interior motion sensor (KL30)
75	7.5	brown	Side lamps right-hand side
76	7.5	brown	Side lamps left-hand side
77	5	tan	Ignition switch supply, battery disconnect switch coils supply
78	15	blue	Central locking
79	7.5	brown	Number plate lamp, side markers
80	15	blue	Front fog lamps
81	10	red	Rear fog lamps
82	3	violet	Audio and instrument cluster ignition feed

### Auxiliary fuses

Fuse	Ampere rating	Colour	Circuits protected	Location
83	10	red	Trailer tow module	Left-hand side footwell
84	7.5	brown	DPF glow plug sensing	Below the engine compartment junction box

# Vehicle recovery

## TOWING POINTS




E71361

- A Front towing eye
- B Rear towing eye (Van, Bus and Kombi)
- C Rear towing eye (Chassis Cab and Flatbed truck)


## TOWING THE VEHICLE ON FOUR WHEELS

### All vehicles




#### WARNINGS

 Switch the ignition on when your vehicle is being towed. The steering lock will engage and the direction indicators and brake lamps will not work if you do not.

#### WARNINGS

 The brake and steering assistance will not operate unless the engine is running. Press the brake pedal harder and allow for increased stopping distances and heavier steering.






#### CAUTIONS

-  Too much tension in the tow rope could cause damage to your vehicle or the vehicle that is towing.
-  Do not use a rigid tow bar on the front towing eye.
-  Select neutral when your vehicle is being towed.

Drive off slowly and smoothly without jerking the vehicle that is towing.

### Vehicles with automatic transmission

#### CAUTIONS

-  If a speed of 20 km/h (12 mph) and a distance of 20 kilometres (12 miles) is to be exceeded the drive wheels must be lifted clear of the ground.
-  It is recommended not to tow with the drive wheels on the ground. However, if it is required to move the vehicle from a dangerous location, do not tow your vehicle faster than 20 km/h (12 mph) or further than 20 kilometres (12 miles).
-  Do not tow your vehicle backwards.
-  In the event of a mechanical failure of the transmission the drive wheels must be lifted clear of the ground.
-  Do not tow your vehicle if the ambient temperature is below 0°C (32°F).

# Vehicle recovery

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## TOWING THE VEHICLE ON FOUR WHEELS - VEHICLES WITH: AWD

### WARNINGS



Switch the ignition on when your vehicle is being towed. The steering lock will engage and the direction indicators and brake lamps will not work if you do not.



The brake servo and the power steering pump do not operate unless the engine is running. Press the brake pedal harder and allow for increased stopping distances and heavier steering.

### CAUTIONS



Too much tension in the tow rope could cause damage to your vehicle or the vehicle that is towing.



Do not use a rigid tow bar on the front towing eye.



In the event of a breakdown or a mechanical failure of the transmission your vehicle must be recovered with either **ALL** wheels on the ground or transported with **ALL** wheels off the ground.

---

Drive off slowly and smoothly without jerking the vehicle that is towing.

# Maintenance

## GENERAL INFORMATION

Have your vehicle serviced regularly to help maintain its roadworthiness and resale value. There is a large network of Ford Authorised Repairers that are there to help you with their professional servicing expertise. We believe that their specially trained technicians are best qualified to service your vehicle properly and expertly. They are supported by a wide range of highly specialised tools developed specifically for servicing your vehicle.

In addition to regular servicing, we recommend that you carry out the following additional checks.

### WARNINGS



Switch the ignition off before touching or attempting adjustment of any kind.



Do not touch the electronic ignition system parts after you have switched the ignition on or when the engine is running. The system operates at high voltage.



Keep your hands and clothing clear of the engine cooling fan. Under certain conditions, the fan may continue to run for several minutes after you have switched the engine off.

## Daily checks

- Exterior lamps.
- Interior lamps.
- Warning lamps and indicators.

## Check when refuelling

- Engine oil level. See **Engine Oil Check** (page 132).
- Brake fluid level. See **Brake and Clutch Fluid Check** (page 134).

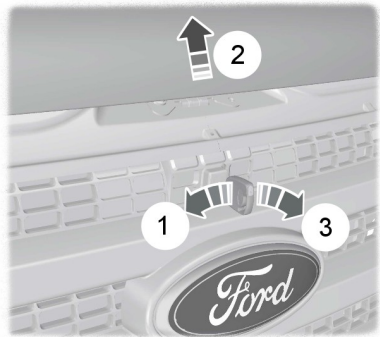
- Washer fluid level. See **Washer Fluid Check** (page 135).
- Tyre pressures (when cold). See **Technical Specifications** (page 162).
- Tyre condition. See **Tyre Care** (page 160).

## Monthly checks

- Engine coolant level (engine cold). See **Engine Coolant Check** (page 133).
- Pipes, hoses and reservoirs for leaks.
- Power steering fluid level. See **Power Steering Fluid Check** (page 134).
- Air conditioning operation.
- Parking brake operation.
- Horn operation.
- Tightness of wheel nuts. See **Technical Specifications** (page 162).

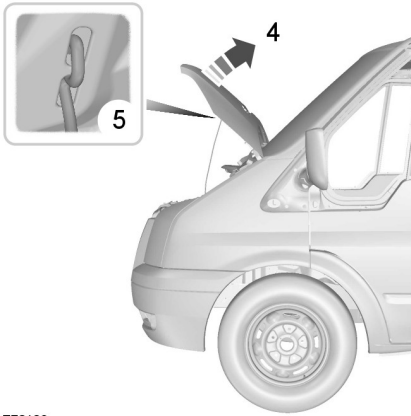
## OPENING AND CLOSING THE BONNET

### Opening the bonnet



E72108

# Maintenance



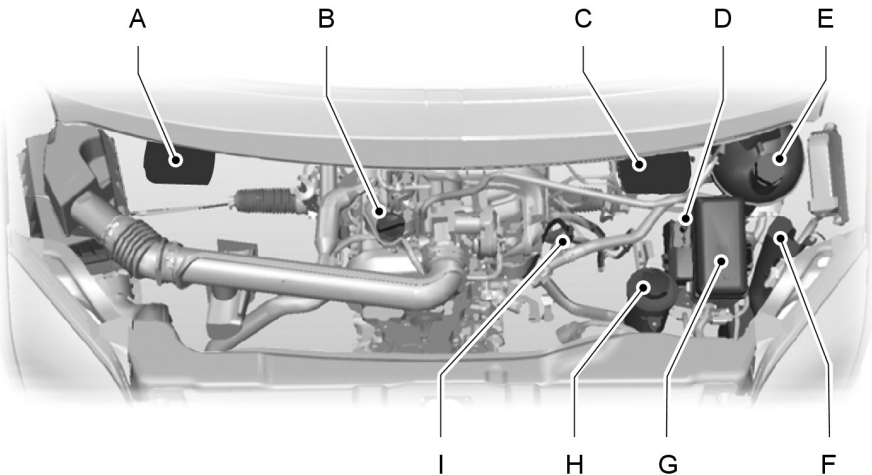
## Closing the bonnet

**Note:** Make sure that the bonnet is closed properly.

Lower the bonnet and allow it to drop from under its own weight for the last 20–30 centimetres.

E72109

## UNDER BONNET OVERVIEW - 2.3L DURATEC-HE (MI4)



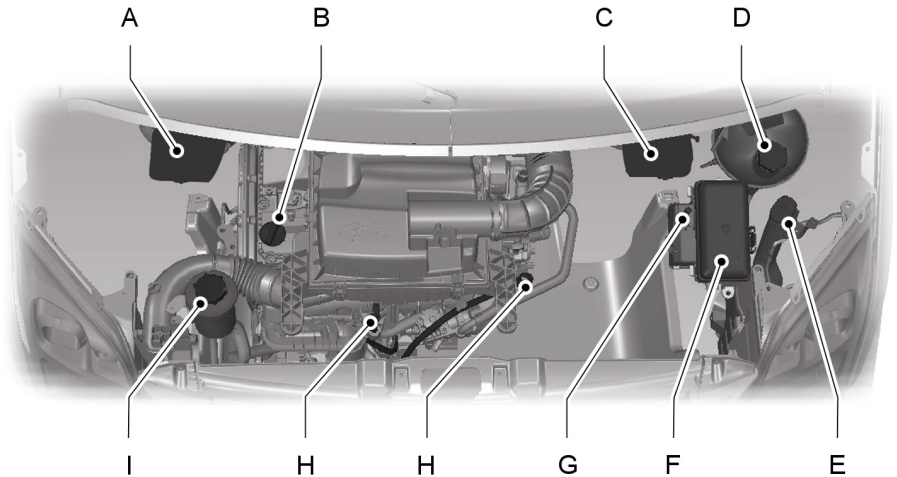
E70606

# Maintenance

- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- B Engine oil filler cap\*. See **Engine Oil Check** (page 132).
- C Brake and clutch fluid reservoir (left-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- D Battery positive connection (for connecting booster cables). See **Vehicle battery** (page 141).
- E Engine coolant reservoir. See **Engine Coolant Check** (page 133).
- F Washer fluid reservoir. See **Washer Fluid Check** (page 135).
- G Engine junction box. See **Fuses** (page 114).
- H Power steering fluid reservoir. See **Power Steering Fluid Check** (page 134).
- I Engine oil dipstick\*. See **Engine Oil Check** (page 132).

\* The filler caps and the engine oil dipstick are coloured for easy identification.

## UNDER BONNET OVERVIEW - 2.2L DURATORQ-TDCI (PUMA) DIESEL



E70605

# Maintenance

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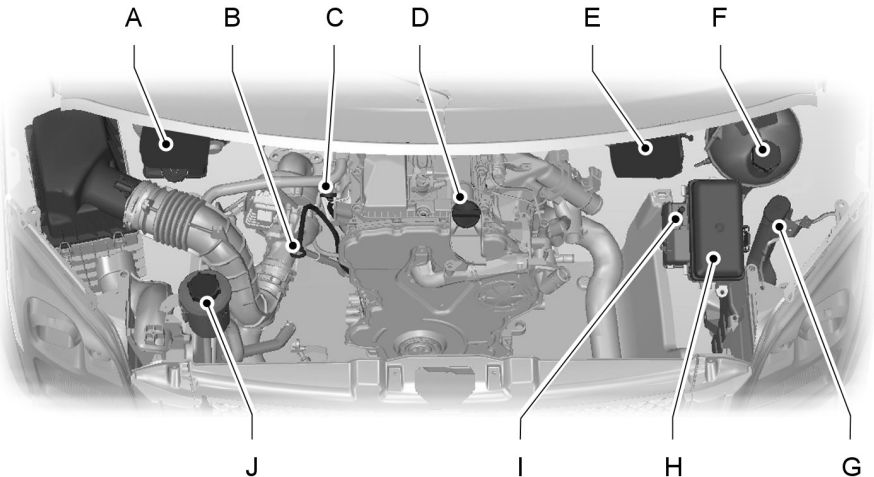
- A Fuel filter water trap (left-hand drive). See **Draining the Fuel Filter Water Trap** (page 134).
- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- B Engine oil filler cap\*. See **Engine Oil Check** (page 132).
- C Brake and clutch fluid reservoir (left-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- C Fuel filter water trap (right-hand drive). See **Draining the Fuel Filter Water Trap** (page 134).
- D Engine coolant reservoir. See **Engine Coolant Check** (page 133).
- E Washer fluid reservoir. See **Washer Fluid Check** (page 135).
- F Engine junction box. See **Fuses** (page 114).
- G Battery positive connection (for connecting booster cables). See **Vehicle battery** (page 141).
- H Engine oil dipstick\*\*. See **Engine Oil Check** (page 132).
- I Power steering fluid reservoir. See **Power Steering Fluid Check** (page 134).

\* The filler caps and the engine oil dipstick are coloured for easy identification.

\*\*The dipstick will be in one of the two locations indicated.

# Maintenance

## UNDER BONNET OVERVIEW - 2.2L DURATORQ-TDCI (PUMA) DIESEL/2.4L DURATORQ-TDCI (PUMA) DIESEL/3.2L DURATORQ-TDCI (PUMA) DIESEL



E70607

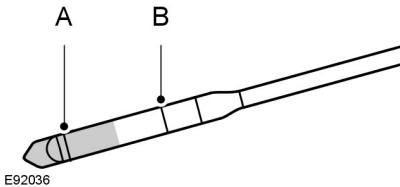
- A Fuel filter water trap (left-hand drive). See **Draining the Fuel Filter Water Trap** (page 134).
- A Brake and clutch fluid reservoir (right-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- B Engine oil dipstick - 2.4L Duratorq-TDCi (Puma) Diesel and 3.2L Duratorq-TDCi (Puma) Diesel\*. See **Engine Oil Check** (page 132).
- C Engine oil dipstick - 2.2L Duratorq-TDCi (Puma) Diesel\*. See **Engine Oil Check** (page 132).
- D Engine oil filler cap\*. See **Engine Oil Check** (page 132).
- E Brake and clutch fluid reservoir (left-hand drive). See **Brake and Clutch Fluid Check** (page 134).
- E Fuel filter water trap (right-hand drive). See **Draining the Fuel Filter Water Trap** (page 134).
- F Engine coolant reservoir. See **Engine Coolant Check** (page 133).
- G Washer fluid reservoir. See **Washer Fluid Check** (page 135).

# Maintenance

- H Engine junction box. See **Changing a Fuse** (page 116).
- I Battery positive connection (for connecting booster cables). See **Jump-Starting the Vehicle** (page 141).
- J Power steering fluid reservoir. See **Power Steering Fluid Check** (page 134).

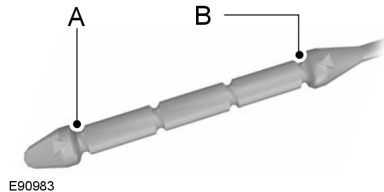
\* The filler caps and the engine oil dipstick are coloured for easy identification.

## ENGINE OIL DIPSTICK - 2.3L DURATEC-HE (MI4)



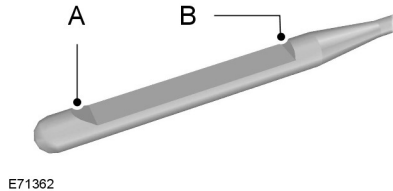
- A MIN
- B MAX

## ENGINE OIL DIPSTICK - 2.2L DURATORQ-TDCI (PUMA) DIESEL



- A MIN
- B MAX

## ENGINE OIL DIPSTICK - 2.4L DURATORQ-TDCI (PUMA) DIESEL/3.2L DURATORQ-TDCI (PUMA) DIESEL



- A MIN
- B MAX

## ENGINE OIL CHECK

### CAUTION


! Do not use oil additives or other engine treatments. Under certain conditions, they could damage the engine.

**Note:** The oil consumption of new engines reaches its normal level after approximately 5000 kilometres (3000 miles).

# Maintenance

## Checking the oil level

### CAUTION

-  Make sure that the level is between the **MIN** and the **MAX** marks.

**Note:** Check the level before starting the engine.

**Note:** Make sure that your vehicle is on level ground.



**Note:** Oil expands when it is hot. The level may therefore extend a few millimetres beyond the **MAX** mark.

Remove the dipstick and wipe it with a clean, lint free cloth. Replace the dipstick and remove it again to check the oil level.

If the level is at the **MIN** mark, top up immediately.


## Topping up

### WARNINGS

-  Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.
-  Do not remove the filler cap when the engine is running.

Remove the filler cap.

### WARNING

-  Do not top up further than the **MAX** mark.

**Note:** Soak up any spillage with an absorbent cloth immediately.


Top up with fluid that meets the Ford specification. See **Technical Specifications** (page 135).

Replace the filler cap. Turn it until you feel a strong resistance.


## ENGINE COOLANT CHECK

### Checking the coolant level

### WARNING

-  Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

### CAUTION





-  Make sure that the level is between the **MIN** and the **MAX** marks.

**Note:** Coolant expands when it is hot. The level may therefore extend beyond the **MAX** mark.


If the level is at the **MIN** mark, top up immediately.

## Topping up

### WARNINGS


-  Only top up when the engine is cold. If the engine is hot, wait 10 minutes for the engine to cool down.
-  Do not remove the filler cap when the engine is running.
-  Do not remove the filler cap when the engine is hot. Wait for the engine to cool down.
-  Undiluted coolant is flammable and may ignite if spilt on a hot exhaust.

### CAUTIONS

-  In an emergency, you can add just water to the cooling system to reach a vehicle service station. Have the system checked by a properly trained technician as soon as possible.


# Maintenance

## CAUTIONS

-  Prolonged use of incorrect dilution of the coolant can cause engine damage from corrosion, overheating or freezing.

Unscrew the cap **slowly**. Any pressure will escape slowly as you unscrew the cap.


## CAUTION


-  Do not top up further than the **MAX** mark.


Top up with a 50/50 mixture of coolant and water using fluid that meets the Ford specification. See **Technical Specifications** (page 135).

## BRAKE AND CLUTCH FLUID CHECK

### WARNINGS

-  Use of any fluid other than the recommended brake fluid may reduce brake efficiency and not meet Ford's performance standards.

-  Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

-  If the level is at the **MIN** mark, have the system checked by a properly trained technician as soon as possible.


**Note:** *Keep brake fluid clean and dry. Contamination with dirt, water, petroleum products or other materials may result in brake system damage and possible failure.*

**Note:** *The brake and the clutch systems are supplied from the same reservoir.*


Top up with fluid that meets the Ford specification. See **Technical Specifications** (page 135).

## POWER STEERING FLUID CHECK

### WARNING

-  Do not allow the fluid to touch your skin or eyes. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.

### CAUTION


-  Make sure that the level is between the **MIN** and the **MAX** marks.

If the level is at the **MIN** mark, top up immediately.

### Topping up

Remove the filler cap.

### CAUTION


-  Do not top up further than the **MAX** mark.

Top up with fluid that meets the Ford specification. See **Technical Specifications** (page 135).

## DRAINING THE FUEL FILTER WATER TRAP

### Vehicles with a diesel engine

### WARNINGS

-  Do not dispose of diesel in household refuse or the public sewage system. Use your local authorised waste disposal facilities.

# Maintenance

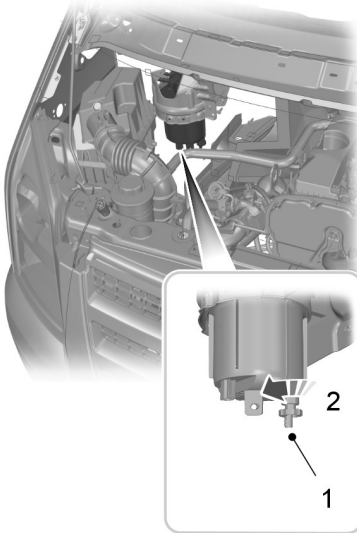
## WARNINGS



The plug will rise when opening the drain. Make sure you close the drain after the water has been drained.

**Note:** With the engine running, the water-in-fuel indicator lamp will go out after approximately 2 seconds.

**Note:** Only add fuel that meets the Ford specification. See **Fuel and Refuelling** (page 86).



E140047

1. Attach a suitable hose to the drain plug and direct the hose into a suitable container.
2. Unscrew the drain plug one to two turns and allow the water to drain.

Install in the reverse order.

## WASHER FLUID CHECK

**Note:** The front and rear washer systems are supplied from the same reservoir.

When topping up, use a mixture of washer fluid and water to help prevent freezing in cold weather and improve the cleaning capability. We recommend that you use only high quality washer fluid.

For information on fluid dilution, refer to the product instructions.

## TECHNICAL SPECIFICATIONS

### Vehicle fluids

#### CAUTION



Do not use fluids which do not meet the specifications or requirements defined. Use of unsuitable fluids may lead to damage which is not covered by your Warranty.

# Maintenance

Part	Specification	Recommended fluid
Engine oil	WSS-M2C913-C	Castrol Engine Oil <sup>3</sup>
Power assisted steering	WSS-M2C204-A2	Ford or Motorcraft Power Steering Fluid (green) <sup>2</sup>
Power assisted steering	WSA-M2C195-A	Ford or Motorcraft Power Steering Fluid (red) <sup>2</sup>
Coolant	WSS-M97B44-D	Motorcraft SuperPlus Anti-freeze
Brake fluid	WSS-M6C57-A2	Ford or Motorcraft Super DOT 4 Brake Fluid
Rear axle <sup>1</sup>	WSS-M2C939A	Ford Hypoid Oil

<sup>1</sup>Under normal operating conditions the rear axle requires no maintenance. However, in the event the rear axle becomes submerged under water, have the fluid changed by your dealer.

<sup>2</sup>Always top up with the same colour fluid.

<sup>3</sup>Providing it meets the specification defined by **WSS-M2C913-C**, you can also use Ford Engine Oil or an alternative engine oil.

**Note:** If you operate your vehicle in temperatures below  $-20^{\circ}\text{C}$ , you must not use **SAE 10W-40** engine oil.

**Topping up the oil:** If you are unable to find an oil that meets the specification defined by **WSS-M2C913-C**, you must use **SAE5W-30** (preferred), **SAE5W-40** or **SAE10W-40** that meets the specification defined by either **ACEA A5/B5** (preferred) or **ACEA A3/B3**. Using these oils can result in longer engine cranking periods, reduced engine performance, reduced fuel economy and increased emission levels.

Castrol engine oil recommended.



# Maintenance

## Capacities

Variant	Item	Capacity in Litres (gallons)
All	Power assisted steering fluid	MAX-mark
All	Windscreen washer system	5.5 (1.2)
All - Normal capacity	Fuel tank	80 (17.6)
Increased capacity	Fuel tank	103 (22.7)
2.3L Duratec-HE	Engine oil – with filter	4.3 (1.0)
2.3L Duratec-HE	Engine oil – without filter	3.9 (0.9)
2.3L Duratec-HE	Cooling system with auxiliary heater	10.1 (2.2)
2.3L Duratec-HE	Cooling system with front heater only	7.8 (1.7)
2.2L DuraTorq-TDCi, front-wheel drive	Engine oil – with filter	6.2 (1.4)
2.2L DuraTorq-TDCi, front-wheel drive	Engine oil – without filter	6.0 (1.3)
2.2L DuraTorq-TDCi, rear-wheel drive	Engine oil – with filter	10.1 (2.2)
2.2L DuraTorq-TDCi, rear-wheel drive	Engine oil – without filter	9.7 (2.1)
2.4L DuraTorq-TDCi	Engine oil – with filter	8.8 (1.9)
2.4L DuraTorq-TDCi	Engine oil – without filter	8.4 (1.8)
2.2L DuraTorq-TDCi, rear-wheel drive	Cooling system with fuel fired heater and auxiliary heater	12 (2.6)
2.2L DuraTorq-TDCi, rear-wheel drive	Cooling system with auxiliary heater	12 (2.6)
2.2L DuraTorq-TDCi, rear-wheel drive	Cooling system with fuel fired heater	12 (2.6)
2.2L DuraTorq-TDCi, rear-wheel drive	Cooling system with front heater only	10 (2.2)

# Maintenance

<b>Variant</b>	<b>Item</b>	<b>Capacity in Litres (gallons)</b>
2.2L DuraTorq-TDCi, front-wheel drive and 2.4L DuraTorq-TDCi	Cooling system with fuel fired heater and auxiliary heater	13 (2.9)
2.2L DuraTorq-TDCi, front-wheel drive and 2.4L DuraTorq-TDCi	Cooling system with auxiliary heater	12.8 (2.8)
2.2L DuraTorq-TDCi, front-wheel drive and 2.4L DuraTorq-TDCi	Cooling system with fuel fired heater	11.5 (2.5)
2.2L DuraTorq-TDCi, front-wheel drive and 2.4L DuraTorq-TDCi	Cooling system with front heater only	10 (2.2)
3.2L DuraTorq-TDCi	Engine oil – with filter	11.4 (2.5)
3.2L DuraTorq-TDCi	Engine oil – without filter	11 (2.4)
3.2L DuraTorq-TDCi	Cooling system	7.3 (1.6)

## Engine oil top up capacities

<b>Engine</b>	<b>Capacity in litres (gallons)</b>
2.3L Duratec-HE	0.7 (0.2)
2.2L DuraTorq-TDCi	1.5 (0.3)
2.4L DuraTorq-TDCi	2 (0.4)
3.2L DuraTorq-TDCi	2.5 (0.6)

# Vehicle Care

## CLEANING THE EXTERIOR

### WARNING



If you use a car wash with a waxing cycle, make sure that you remove the wax from the windscreen.

### CAUTIONS



Prior to using a car wash facility check the suitability of it for your vehicle.



Some car wash installations use water at high pressure. This could damage certain parts of your vehicle.



Remove the aerial before using an automatic car wash.



Switch the heater blower off to prevent contamination of the fresh air filter.

We recommend that you wash your vehicle with a sponge and lukewarm water containing a car shampoo.

## Cleaning the headlamps

### CAUTIONS



Do not scrape the headlamp lenses or use abrasives, alcoholic solvents or chemical solvents to clean them.



Do not wipe the headlamps when they are dry.

## Cleaning the rear window

### CAUTION



Do not scrape the inside of the rear window or use abrasives or chemical solvents to clean it.

Use a clean, lint free cloth or a damp chamois leather to clean the inside of the rear window.

## Cleaning the chrome trim

### CAUTION



Do not use abrasives or chemical solvents. Use soapy water.

## Cleaning the alloy wheels

**Note:** Do not apply a cleaning chemical to warm or hot wheel rims and covers.

**Note:** Industrial-strength (heavy-duty) cleaners, or cleaning chemicals, in combination with brush agitation to remove brake dust and dirt, could wear away the clear coat finish over a period time.

**Note:** Do not use hydrofluoric acid-based or high caustic-based wheel cleaners, steel wool, fuels or strong household detergent.

**Note:** If you intend parking your vehicle for an extended period after cleaning the wheels with a wheel cleaner, drive your vehicle for a few minutes before doing so. This will reduce the risk of increased corrosion of the brake discs, brake pads and linings.

**Note:** Some automatic car washes may cause damage to the finish on your wheel rims and covers.

Alloy wheels and wheel covers are coated with a clear coat paint finish. To maintain their condition we recommend that you:

- Clean them weekly with the recommended wheel and tyre cleaner.
- Use a sponge to remove heavy deposits of dirt and brake dust accumulation.
- Rinse them thoroughly with a pressurised stream of water when you have completed the cleaning process.

We recommend that you use Ford service wheel cleaner. Make sure that you read and follow the manufacturer's instructions.




# Vehicle Care

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Using other non-recommended cleaning products can result in severe and permanent cosmetic damage.

## Body paintwork preservation

### CAUTIONS



-  Do not polish your vehicle in strong sunshine.
  -  Do not allow polish to touch plastic surfaces. It could be difficult to remove.
  -  Do not apply polish to the windscreen or rear window. This could cause the wipers to become noisy and they may not clear the window properly.
- 

We recommend that you wax the paintwork once or twice a year.

## CLEANING THE INTERIOR

### Seat belts


#### WARNINGS

-  Do not use abrasives, or chemical solvents to clean them.
  -  Do not allow moisture to penetrate the seat belt retractor mechanism.
- 

Clean the seat belts with interior cleaner or water applied with a soft sponge. Let the seat belts dry naturally, away from artificial heat.



### Instrument cluster screens, LCD screens, radio screens

#### WARNING

-  Do not use abrasives, alcoholic solvents or chemical solvents to clean them.
- 


## Rear windows

### CAUTIONS

-  Do not use any abrasive materials to clean the interior of the rear windows.
  -  Do not install stickers or labels to the interior of the rear windows.
- 

## REPAIRING MINOR PAINT DAMAGE

### CAUTION





-  Remove apparently harmless looking substances from the paintwork immediately (e.g. bird droppings, tree resins, insect remains, tar spots, road salt and industrial fall out).
- 

You should repair paintwork damage caused by stones from the road or minor scratches as soon as possible. A choice of products is available from your Ford Dealer. Read and follow the manufacturer's instructions.

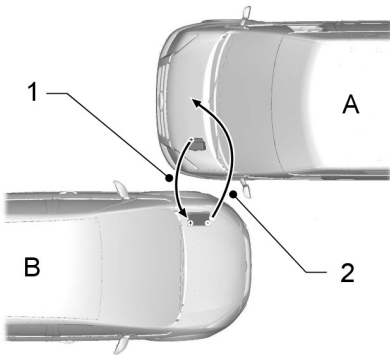
# Vehicle battery

## JUMP-STARTING THE VEHICLE

### WARNINGS

-  Do not use fuel lines, engine rocker covers or the intake manifold as grounding points.
-  Connect batteries with only the same nominal voltage.
-  Always use booster cables with insulated clamps and adequate size cable.
-  Do not disconnect the battery from the vehicle's electrical system.

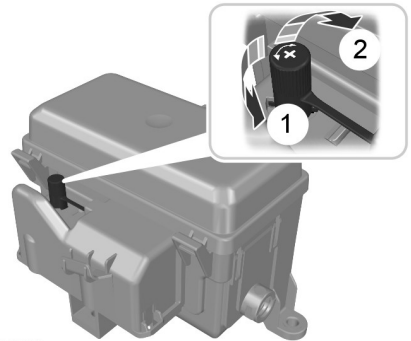
### To connect the booster cables



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- A Flat battery vehicle
- B Booster battery vehicle
- 1 Positive connection cable
- 2 Negative connection cable



1. Position the vehicles so that they do not touch one another.
2. Switch off the engine and any electrical equipment.



E71368

3. Lift up the battery positive connection point cover. For item location, refer to the appropriate engine compartment overview. See **Maintenance** (page 127).
4. Connect the positive (+) terminal of vehicle **A** with the positive (+) terminal of vehicle **B** (cable **1**).
5. Connect the negative (-) terminal of vehicle **B** to the engine block or the engine mount of vehicle **A** (cable **2**).

### WARNINGS

-  **Do not connect to the negative (-) terminal of the flat battery.**
-  Make sure that the cables are clear of any moving parts and fuel delivery system parts.

### To start the engine

1. Run the engine of vehicle **B** at moderately high speed.
2. Start the engine of vehicle **A**.
3. Run both vehicles for a minimum of three minutes before disconnecting the cables.

# Vehicle battery

## WARNING



Do not switch on the headlamps when disconnecting the cables. The peak voltage could blow the bulbs.

Disconnect the cables in the reverse order.

## BATTERY CARE

Additional loads fitted to the vehicle battery above 30A (running load) and 12mA (key-off load) can result in an early life battery failure. High cycling batteries are available from your Ford Dealer.

## CHANGING THE 12V BATTERY

### WARNINGS



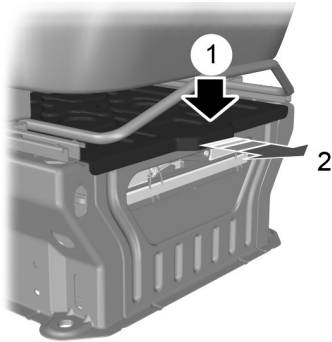
For vehicles with Start-Stop the battery requirement is different. It must be replaced by one of exactly the same specification as the original.



Make sure the battery box is correctly sealed.

**Note:** The battery is located inside the vehicle under the driver's seat.

**Note:** Where applicable, the audio system must be reprogrammed with the keycode.

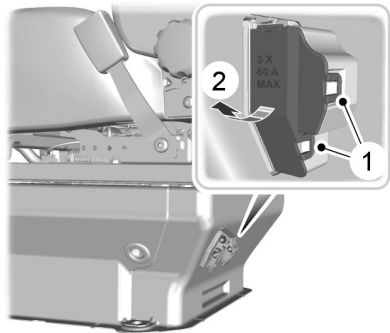


E66643

1. Turn the safety pin anti-clockwise and take it out.
2. Remove the battery cover.
3. Slide the seat fully forwards. See **Front Seats** (page 72).

Install in the reverse order.

## BATTERY CONNECTION POINTS



E75702

## CAUTION



Do not connect any electrical items directly to the vehicle batteries.

## Vehicle battery

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There are three connection points available, each provides a maximum of 60A current. Ask your dealer for advice on accessories suitable for your vehicle.

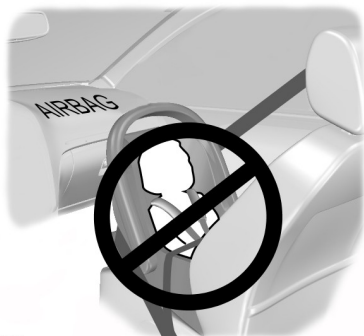
1. Release the clips.
2. Raise the cover.

# Child Safety

## CHILD SEATS








E133140





E68916

### WARNINGS

-  Secure children that are less than 150 centimetres (59 inches) tall in a suitable, approved child restraint, in the rear seat.
-  Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an air bag in front of it!
-  Read and follow the manufacturer's instructions when you are fitting a child restraint.
-  Do not modify child restraints in any way.
-  Do not hold a child on your lap when the vehicle is moving.

### WARNINGS

-  Do not leave unattended children in your vehicle.
-  If your vehicle has been involved in an accident, have the child restraints checked by properly trained technicians.

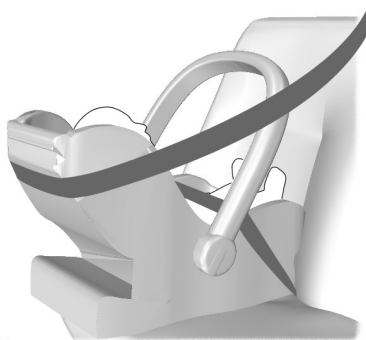
**Note:** *Mandatory use of child restraints varies from country to country.*

Only child restraints certified to ECE-R44.03 (or later) have been tested and approved for use in your vehicle. A choice of these are available from your Dealer.

### Child restraints for different mass groups

Use the correct child restraint as follows:

#### Baby safety seat



E68918

Secure children that weigh less than 13 kilograms (29 pounds) in a rearward facing baby safety seat (Group 0+) in the rear seat.

# Child Safety

## Child safety seat

Secure children that weigh between 13 and 18 kilograms (29 and 40 pounds) in a child safety seat (Group 1) in the rear seat.



E68920

## CHILD SEAT POSITIONING

### Child seat positions

#### WARNING



When fitting a child seat using the vehicle seat belts make sure the belts are not slack.

Seating positions	Mass group categories				
	0	0+	1	2	3
	Up to 10 kg	Up to 13 kg	9 - 18 kg	15 - 25 kg	22 - 36 kg
	Baby safety seat	Baby safety seat	Child safety seat	Booster seat or cushion	Booster seat or cushion
Front passenger seat with airbag	X	X	X	X	X
Front passenger seat without airbag	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>	U <sup>1</sup>
Rear seats	U	U	U	U	U

**X** Not suitable for children in this mass group.

**U** Suitable for universal category child restraints approved for use in this mass group.

**U<sup>1</sup>** Suitable for universal category child restraints approved for use in this mass group.

# Child Safety

## ISOFIX child restraints

Seating positions	Mass group categories		
	0	0+	I
	Up to 10 kg	Up to 13 kg	9 - 18 kg
	Baby safety seat		Child safety seat
Rear ISOFIX second row	IU	IU	IU
ISOFIX size class*	E	C, D, E	A, B, B1, C, D

**IU** Suitable for universal category ISOFIX child restraints approved for use in this mass group.



\*As defined by ECE-R16.

**Note:** When you are purchasing an ISOFIX restraint, make sure that you know the correct mass group and ISOFIX size class for the intended seating locations.


# Child Safety

## BOOSTER SEATS

### WARNINGS

-  Do not install a booster seat or a booster cushion with only the lap strap of the seat belt.
-  Do not install a booster seat or a booster cushion with a seat belt that is slack or twisted.
-  Do not put the seat belt under your child's arm or behind its back.
-  Do not use pillows, books or towels to boost your child's height.
-  Make sure that your children sit in an upright position.
-  Secure children that weigh more than 15 kilograms (33 pounds) but are less than 150 centimetres (59 inches) tall in a booster seat or a booster cushion.

### CAUTION

-  When using a child seat on a rear seat, make sure that the child seat rests tightly against the vehicle seat. It may be necessary to lift or remove the head restraint. See **Head Restraints** (page 75).

## Booster seat (Group 2)



E70710

We recommend that you use a booster seat that combines a cushion with a backrest instead of a booster cushion only. The raised seating position will allow you to position the shoulder strap of the adult seat belt over the centre of your child's shoulder and the lap strap tightly across its hips.

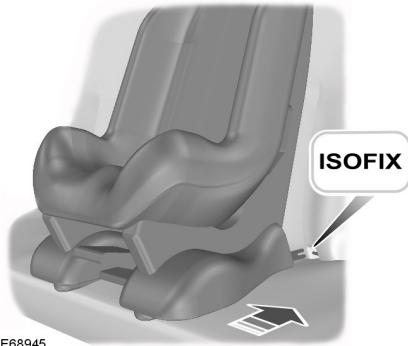
## Booster cushion (Group 3)



E68924


# Child Safety

## ISOFIX ANCHOR POINTS



E68945

### WARNING

 Use an anti-rotation device when using the ISOFIX system. We recommend that you use a top tether or a support leg.

**Note:** When you are purchasing an ISOFIX restraint, make sure that you know the correct mass group and ISOFIX size class for the intended seating locations. See **Child Seat Positioning** (page 145).

Your vehicle is fitted with ISOFIX anchor points that accommodate universally approved ISOFIX child restraints.


The ISOFIX system comprises two rigid attachment arms on the child restraint that attach to anchor points on the 2nd row seats, where the cushion and backrest meet. Tether anchor points are fitted to the rear of the 2nd row seats for child restraints with a top tether.

## Attaching a child restraint with a top tether




E68946

### WARNING

 Do not attach a tether strap to anything other than the correct tether anchor point.

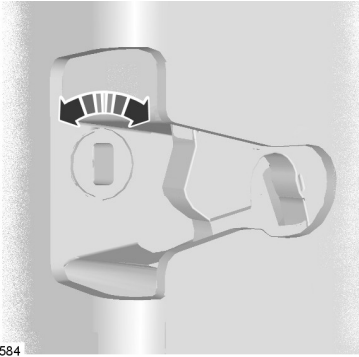
## CHILD SAFETY LOCKS

### WARNING

 You cannot open the doors from inside if you have put the child safety locks on.

# Child Safety

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E74584

## **Left-hand side**

Turn clockwise to lock and anti-clockwise to unlock.

## **Right-hand side**

Turn anti-clockwise to lock and clockwise to unlock.

# Wheels and Tyres

## GENERAL INFORMATION

### CAUTIONS

⚠ Use only approved wheel and tyre sizes. Using other sizes could damage the vehicle and will make the National Type Approval invalid.

⚠ If you change the diameter of the tyres from that fitted at the factory, the speedometer may not display the correct speed. Take the vehicle to your dealer to have the engine management system reprogrammed.

A decal with tyre pressure data is located in the driver's door opening at the B-pillar.

Check and set the tyre pressure at the ambient temperature in which you are intending to drive the vehicle and when the tyres are cold.

Set the pressure for your spare tyre to the highest value given for your vehicle and tyre size combination.

Data about tyres, rims and tyre pressures for special vehicle model variants is only given on the tyre pressure decal on these vehicles.

## CHANGING A ROAD WHEEL

### Locking wheel nuts

You can obtain a replacement locking wheel nut key and replacement locking wheel nuts from your dealer using the reference number certificate.

### Spare wheel

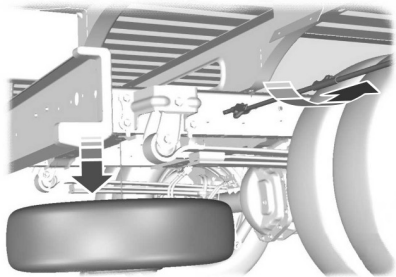
The spare wheel is located underneath the rear of the vehicle.

### Single rear wheel vehicles



E70947

### Double rear wheel vehicles

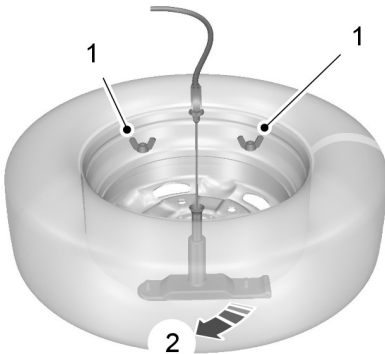


E70948

If your vehicle has a security bolt, remove it by turning anti-clockwise.

Fully insert the flat end of the wheel brace (Bus, Van and Kombi) or the short arm of the jack handle (Chassis cab and Flatbed truck) into the guide hole. Turn anti-clockwise until the wheel rests on the ground, and there is slack in the cable.

# Wheels and Tyres



E70949

1. Remove the wing nut(s).
2. Pass the bracket and cable through the wheel opening.

## Vehicle jack

### WARNINGS



The vehicle jack supplied with your vehicle should only be used when changing a wheel in emergency situations.



Before using the vehicle jack, check that it is not damaged or deformed and that the thread is lubricated and free from foreign matter.

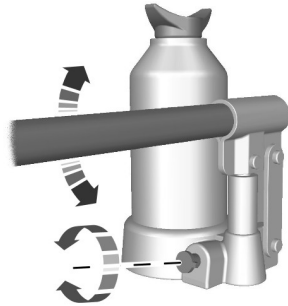


Never place anything between the jack and the ground, or the jack and the vehicle.

**Note:** Vehicles with a tyre repair kit are not equipped with a vehicle jack or a wheel brace.

The jack, wheel brace and jack handle are located in a storage compartment in the front right stepwell.

## 430 and 460 series vehicles



E70959

- Assemble the jack handle.
- Slide the flat end of the jack handle over the locking valve. Turn the handle fully clockwise. Insert the handle into the pump, and lift the vehicle using a pumping motion.

## All except 430 and 460 series vehicles

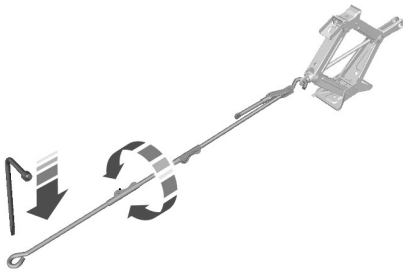


E70957

- Unfold the jack handle.

# Wheels and Tyres

## 430 and 460 series vehicles



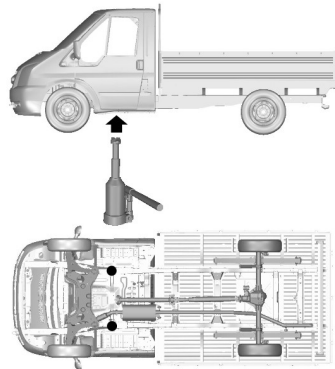
E70958

- Insert the hook of the handle into the ring on the jack. Insert the wheel brace into the other end of the handle and rotate clockwise.

### Front jacking points

#### CAUTIONS

- ⚠ Use only the specified jacking points. If you use other positions, you may damage the body, steering, suspension, engine, braking system or the fuel lines.
- ⚠ Make sure that when positioning the jack, on a vehicle fitted with rear air conditioning (A/C), that it does not come in contact with the A/C lines or the fuel tank support strap.

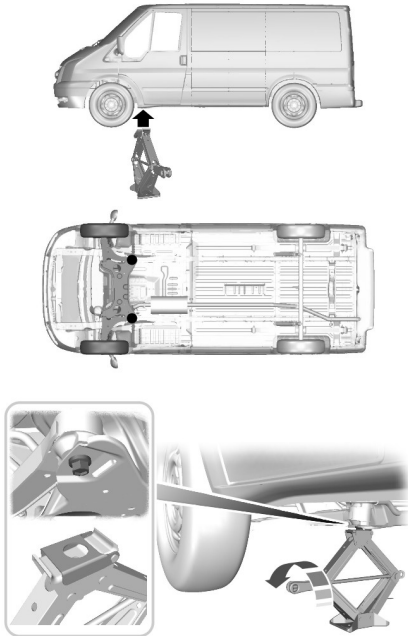


E70951

Position the jack under the protrusions at the rear of the sub-frame.

# Wheels and Tyres

## All except 430 and 460 series vehicles



E70952

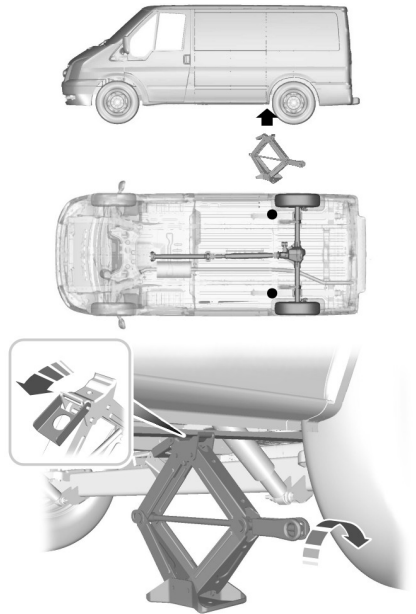
Close the flap on the top of the jack (storage position). The front sub-frame rear bolts fit into a recess on the flap of the jack.

## Rear jacking points

### CAUTION

**!** Use only the specified jacking points. If you use other positions, you may damage the body, steering, suspension, engine, braking system or the fuel lines.

## Front-wheel drive Bus, Van and Kombi (260, 280 and 300 series vehicles)



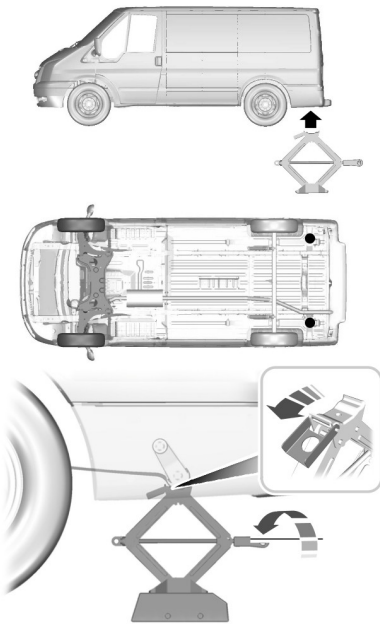
E70953

Open the flap on top of the jack. Position under the rear leaf spring directly in front of the rear wheel.

## Front-wheel drive Bus, Van and Kombi (330 and 350 series vehicles)

**Note:** An additional block is located inside the spare wheel.

# Wheels and Tyres

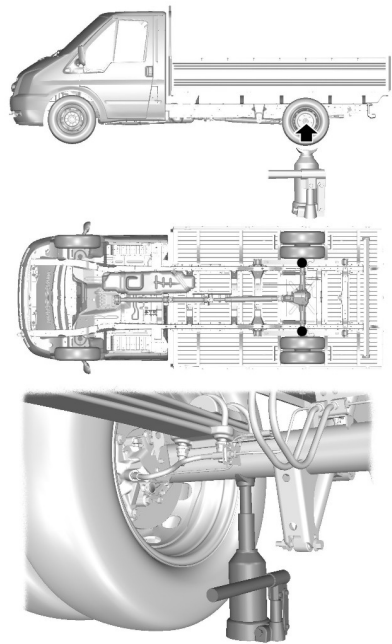


E70954

Open the flap on top of the jack. Place the jack onto the block.

## 430 and 460 series vehicles

**Note:** Position the jack under the axle, as near the wheel being jacked as possible.

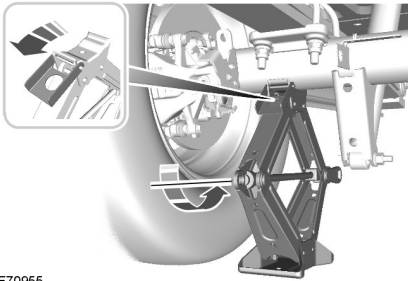
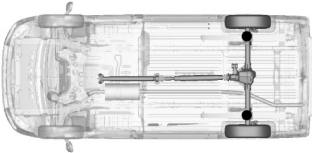
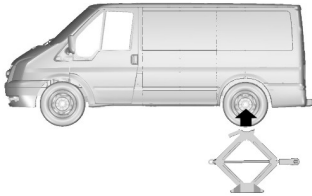


E74136

## All Chassis Cab and all rear-wheel drive Bus, Van and Kombi (All except 430 and 460 series vehicles)

**Note:** Position the jack under the axle, as near the wheel being jacked as possible.

# Wheels and Tyres







E70955







Open the flap on the top of the jack.

## Removing a road wheel


### WARNINGS

-  Park your vehicle in such a position that neither the traffic nor you are hindered or endangered.
-  Set up a warning triangle.
-  Make sure that the vehicle is on firm, level ground with the wheels pointing straight ahead.
-  Switch off the ignition and apply the parking brake.

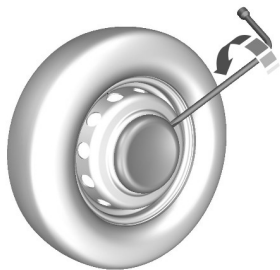
### WARNINGS

-  If your vehicle has a manual transmission, select first or reverse gear. If it has an automatic transmission, select park.
-  Have the passengers leave the vehicle.
-  Secure the diagonally opposite wheel with an appropriate block or wheel chock. This is located within the B-pillar or within the spare wheel.
-  Make sure that the arrows on directional tyres point in the direction of rotation when the vehicle is moving forwards. If you have to fit a spare wheel with the arrows pointing in the opposite direction, have the tyre refitted in the correct direction by a properly trained technician.
-  Do not work underneath the vehicle when it is supported only by a jack.
-  Make sure that the jack is vertical to the jacking point and the base is flat on the ground.

### CAUTION

-  Do not lay alloy wheels face down on the ground, this will damage the paint.
1. Insert the flat end of the wheel brace between the rim and the hub cover and carefully remove the hub cap or cover.

# Wheels and Tyres




E70956

2. Remove the nut caps.
3. Install the locking wheel nut key.
4. Slacken the wheel nuts.
5. Jack up the vehicle until the tyre is clear of the ground.
6. Remove the wheel nuts and the wheel.

## Installing a road wheel

### WARNINGS

 Use only approved wheel and tyre sizes. Using other sizes could damage the vehicle and will make the National Type Approval invalid. See **Technical Specifications** (page 162).

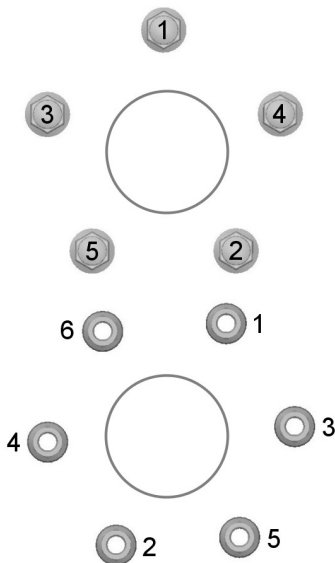
 Make sure that there is no lubrication (grease or oil) on the threads or the interface between wheel studs and nuts.

**Note:** Make sure the wheel and hub contact surfaces are free from foreign matter.

**Note:** Make sure that the cones on the wheel nuts are against the wheel.

**Note:** The wheel nuts of alloy wheels can also be used for the steel spare wheel.


1. Install the wheel.
2. Install the wheel nuts finger tight.
3. Install the locking wheel nut key.



E70961

4. Partially tighten the wheel nuts in the sequence shown.
5. Lower the vehicle and remove the jack.
6. Fully tighten the wheel nuts in the sequence shown. See **Technical Specifications** (page 162).
7. Install the hub cap or cover using the ball of your hand.
8. Install the nut caps.

### WARNING


 Have the wheel nuts checked for tightness and the tyre pressure checked as soon as possible.

**Note:** If the spare wheel is different in size or construction to the road wheels, have this replaced as soon as possible.

# Wheels and Tyres

## Stowing the wheel

### CAUTION


-  Do not raise the spare wheel carrier without the wheel attached. Damage can occur to the winch mechanism if lowered without a wheel attached.

**Note:** *Only when the winch mechanism slips is the wheel fully raised.*

- Place the wheel flat on the ground, so the outside of the wheel faces down. Tilt the bracket, and pass it and the cable through the centre opening in the wheel. Tighten the wing nut(s).
- Fully insert the flat end of the wheel brace into the guide hole and turn clockwise. On vehicles with a security bolt, re-install it by turning clockwise.
- Stow the wheel brace, jack, and jack handle away.

## TEMPORARY MOBILITY KIT

### WARNING


-  Camper vans must follow separate instructions issued with the tyre repair kit.

Your vehicle may not have a spare tyre. In this case it will have an emergency tyre repair kit that can be used to repair **one** flat tyre.





The tyre repair kit is located in the glove box.

## General information

### WARNINGS

-  Depending on the type and extent of tyre damage, some tyres can only be partially sealed or not sealed at all. Loss of tyre pressure can affect vehicle handling, leading to loss of vehicle control.

### WARNINGS

-  Do not use the tyre repair kit if the tyre has already been damaged as a result of being driven under inflated.
-  Do not use the tyre repair kit on run flat tyres.
-  Do not try to seal damage other than that located within the visible tread of the tyre.
-  Do not try to seal damage to the tyre's sidewall.


The tyre repair kit seals most tyre punctures [with a diameter of up to six millimetres (1/4 inch)] to temporarily restore mobility.

Observe the following rules when using the kit:

- Drive with caution and avoid making sudden steering or driving manoeuvres**, especially if the vehicle is heavily loaded or you are towing a trailer.
- The kit will provide you with an emergency temporary repair, enabling you to continue your journey to the next vehicle or tyre dealer, or to drive a maximum distance of 200 kilometres (125 miles).
- Do not exceed a **maximum speed of 80 km/h (50 mph)**.
- Keep the kit out of the reach of children.
- Only use the kit when the ambient temperature is between  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) and  $+70^{\circ}\text{C}$  ( $+158^{\circ}\text{F}$ ).

## Using the tyre repair kit

### WARNINGS

-  Compressed air can act as an explosive or propellant.

# Wheels and Tyres

## WARNINGS



Never leave the tyre repair kit unattended while in use.

## CAUTION



Do not keep the compressor operating for more than 10 minutes.

**Note:** Use the tyre repair kit only for the vehicle with which it was supplied.

- Park your vehicle at the roadside so that you do not obstruct the flow of traffic and so that you are able to use the kit without being in danger.
- Apply the parking brake, even if you have parked on a level road, to make sure that the vehicle will not move.
- Do not attempt to remove foreign objects like nails or screws penetrating the tyre.
- Leave the engine running while the kit is in use, but not if the vehicle is in an enclosed or poorly ventilated area (for example, inside a building). In these circumstances, switch the compressor on with the engine turned off.
- Replace the sealant bottle with a new one before the expiry date (see top of bottle) is reached.
- Inform all other users of the vehicle that the tyre has been temporarily sealed with the tyre repair kit and make them aware of the special driving conditions to be observed.

## Inflating the tyre

### WARNINGS



Check the sidewall of the tyre prior to inflation. If there are any cracks, bumps or similar damage, do not attempt to inflate the tyre.

### WARNINGS



Do not stand directly beside the tyre while the compressor is pumping.



Watch the sidewall of the tyre. If any cracks, bumps or similar damage appear, turn off the compressor and let the air out by means of the pressure relief valve **B**. Do not continue driving with this tyre.



The sealant contains natural rubber latex. Avoid contact with skin and clothing. If this happens, rinse the affected areas immediately with plenty of water and contact your doctor.



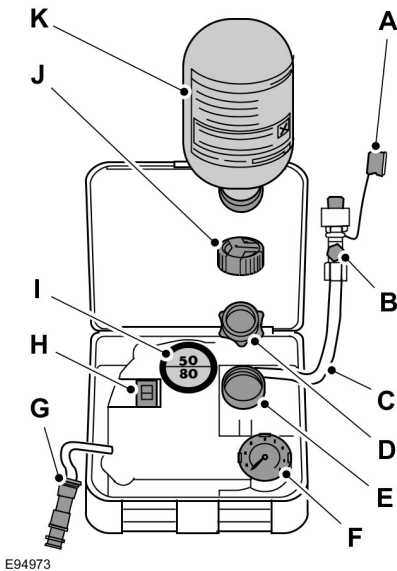
If the tyre inflation pressure does not reach 1.8 bar (26 psi) within seven minutes, the tyre may have suffered excessive damage, making a temporary repair impossible. In this case, do not continue driving with this tyre.

### CAUTION



Screwing the bottle onto the bottle holder will pierce the seal of the bottle. Do not unscrew the bottle from the holder as the sealant will escape.

## Wheels and Tyres



E94973

- A Protective cap
- B Pressure relief valve
- C Hose
- D Orange cap
- E Bottle holder
- F Pressure gauge
- G Power plug with cable
- H Compressor switch
- I Label
- J Bottle lid
- K Sealant bottle

1. Open the lid of the tyre repair kit.
2. Peel off the label **I** showing the maximum permissible speed of 80 km/h (50 mph) from the casing and attach it to the instrument panel in the driver's field of view. Make sure the label does not obscure anything important.
3. Take the hose **C** and the power plug with cable **G** out of the kit.
4. Unscrew the orange cap **D** and the bottle lid **J**.
5. Screw the sealant bottle **K** clockwise into the bottle holder **E** fully tight.
6. Remove the valve cap from the damaged tyre.
7. Detach the protective cap **A** from the hose **C** and screw the hose **C** firmly onto the valve of the damaged tyre.
8. Make sure that the compressor switch **H** is in position **O**.
9. Insert the power plug **G** into the cigar lighter socket or auxiliary power socket. See **Cigar Lighter** (page 77). See **Auxiliary Power Points** (page 78).
10. Start the engine.
11. Move the compressor switch **H** to position **I**.
12. Inflate the tyre for no longer than seven minutes to an inflation pressure of minimum 1.8 bar (26 psi) and a maximum of 3.5 bar (51 psi). Move the compressor switch **H** to position **O** and check the current tyre pressure with pressure gauge **F**.
13. Remove the power plug **G** from the cigar lighter socket or auxiliary power socket.
14. Quickly unscrew the hose **C** from the tyre valve and replace the protective cap **A**. Fasten the valve cap again.
15. Leave the sealant bottle **K** in the bottle holder **E**.

# Wheels and Tyres

16. Make sure the kit, the bottle lid and the orange cap are stored safely, but still easily accessible in the vehicle. The kit will be required again when you check the tyre pressure.
17. Immediately drive approximately three kilometres (two miles) so that the sealant can seal the damaged area.
6. Once you have inflated the tyre to its correct tyre pressure, move the compressor switch **H** to position **O**, remove the power plug **G** from the socket, unscrew the hose **C**, fasten the valve cap and replace the protective cap **A**.
7. Leave the sealant bottle **K** in the bottle holder **E** and store the kit away safely in its original location.

**Note:** When pumping in the sealant through the tyre valve, the pressure may rise up to 6 bar (87 psi) but will drop again after about 30 seconds.

## WARNING



If you experience heavy vibrations, unsteady steering behaviour or noises while driving, reduce your speed and drive with caution to a place where it is safe for you to stop the vehicle. Recheck the tyre and its pressure. If the tyre pressure is less than 1.3 bar (19 psi) or if there are any cracks, bumps or similar damage visible, do not continue driving with this tyre.

## Checking the tyre pressure

1. Stop the vehicle after driving approximately three kilometres (two miles). Check, and where necessary, adjust the pressure of the damaged tyre.
2. Attach the kit and read the tyre pressure from the pressure gauge **F**.
3. If the pressure of the sealant-filled tyre is 1.3 bar (19 psi) or more, adjust it to the specified pressure. See **Technical Specifications** (page 162).
4. Follow the inflation procedure once again to top up the tyre.
5. Check the tyre pressure again from the pressure gauge **F**. If the tyre pressure is too high, deflate the tyre to the specified pressure using the pressure relief valve **B**.

8. Drive to the nearest tyre specialist to get the damaged tyre replaced. Before the tyre is removed from the rim, inform your tyre dealer that the tyre contains sealant. Renew the kit as soon as possible after it has been used once.

**Note:** Remember that emergency roadside tyre repair kits only provide temporary mobility. Regulations concerning tyre repair after usage of tyre repair kit may differ from country to country. You should consult a tyre specialist for advice.

## WARNING



Before driving, make sure the tyre is adjusted to the recommended inflation pressure. See **Technical Specifications** (page 162). Monitor the tyre pressure until the sealed tyre is replaced.

Empty sealant bottles can be disposed of together with normal household waste. Return remains of sealant to your dealer or dispose of it in compliance with local waste disposal regulations.

## TYRE CARE

**Note:** 18" sport tyres are low profile tyres and may possibly have a shorter service lifetime compared with standard light truck tyres, depending on load and driving conditions. Contact your Ford Dealer for further information.


# Wheels and Tyres



E70415

To make sure the front and rear tyres of your vehicle wear evenly and last longer, we recommend that you swap the tyres from front to rear and vice versa at regular intervals of 15 000 to 20 000 km (9 000 to 12 000 miles).

## CAUTION


 Do not scrub the sidewalls of the tyres when you are parking.

If you have to mount a kerb, do so slowly and approach it with the wheels at right-angles to the kerb.

Examine the tyres regularly for cuts, foreign objects and uneven wear of the tread. Uneven wear could mean that the wheel alignment is outside specification.

## USING WINTER TYRES

### CAUTION

 Make sure that you use the correct wheel nuts for the type of wheel the winter tyres are fitted to.

If winter tyres are used, make sure that the tyre pressures are correct. See **Technical Specifications** (page 162).

## USING SNOW CHAINS

### All vehicles

#### WARNINGS



Do not exceed 50 km/h (30 mph).



Do not use snow chains on snow-free roads.

#### CAUTION



If your vehicle is fitted with wheel trims, remove them before fitting snow chains.

**Note:** *The ABS will continue to operate normally.*

Only use small link snow chains.

Only use snow chains on the driven wheels.

### Front wheel drive vehicles

**Note:** *195/75 R 16 C tyres are only covered in the vehicle registration documents for use on the front axle.*

If your vehicle is fitted with 215/75 R 16 C tyres, fit 195/75 R 16 C (M+S) tyres to the front wheels. Inflate the tyres to the maximum pressure permissible.

### Rear wheel drive vehicles

Only fit snow chains to the rear wheels.

### All-wheel drive (AWD) vehicles

Only fit snow chains to the rear wheels.

### Vehicles with stability control (ESP)

Vehicles with stability control (ESP) may exhibit some unusual driving characteristics which can be avoided by switching the system off. See **Using Stability Control** (page 95).

# Wheels and Tyres

## TECHNICAL SPECIFICATIONS

### Wheel nut torque

Wheel type	Nm (lb-ft)
All	200 (147.5)

### Tyre pressures (cold tyres)

#### Bus

#### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
280S	185/75 R 16 C	3 (44)	3 (44)	3.8 (55)	4.1 (60)
280S	195/70 R 15 C	3 (44)	3 (44)	3.6 (52)	3.9 (57)
280S	205/65 R 16 C	2.8 (41)	2.8 (41)	3.4 (49)	3.7 (54)
350L - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)
350L - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.8 (70)	3.8 (55)	4.8 (70)
370L	215/75 R 16 C	3.8 (55)	4.8 (70)	3.8 (55)	4.8 (70)
410EF/M2	185/75 R 16 C	4.7 (68)	4.1 (60)	4.7 (68)	4.1 (60)
410EF/M2	195/75 R 16 C	4.6 (67)	3.7 (54)	4.6 (67)	3.7 (54)

# Wheels and Tyres

## Van and Kombi - Rear wheel drive

### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300S/M/L	205/75 R 16 C	3.5 (51)	4.2 (61)	3.5 (51)	4.2 (61)
330S/M/L	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350M/L - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)
350M/L - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.8 (70)	3.8 (55)	4.8 (70)
350EF - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.9 (71)	3.5 (51)	4.9 (71)
350EF - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.9 (71)	3.8 (55)	4.9 (71)
430EF - Maximum front axle weight 1750 kilograms (3868 pounds)	185/75 R16 C	4.7 (68)	4.1 (60)	4.7 (68)	4.1 (60)
430EF - Maximum front axle weight 1850 kilograms (4079 pounds)	195/75 R16 C	4.6 (67)	3.7 (54)	4.6 (67)	3.7 (54)

## Wheels and Tyres

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
430EF - GVM 3500 kilograms (7700 pounds)	185/75 R 16 C	4.7 (68)	3.5 (51)	4.7 (68)	3.5 (51)
460M/L/EF - Maximum rear axle weight 2600 kilograms (5732 pounds)	195/75 R 16 C	4.6 (67)	3.2 (46)	4.6 (67)	3.2 (46)
460M/L/EF - Maximum rear axle weight 3300 kilograms (7275 pounds)	195/75 R 16 C	4.6 (67)	4.3 (62)	4.6 (67)	4.3 (62)

### Van and Kombi - Front wheel drive

#### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
250S	195/70 R 15 C	3.4 (49)	3.5 (51)	3.4 (49)	3.5 (51)
250S	205/65 R 16 C	3.4 (49)	3.5 (51)	3.4 (49)	3.5 (51)
260S	185/75 R 16 C	3.8 (55)	3.8 (55)	3.8 (55)	3.8 (55)
260S - GVM 2350 kilograms (5181 pounds)	195/70 R 15 C	3.3 (48)	3.3 (48)	3.3 (48)	3.3 (48)
260S - GVM 2350 kilograms (5181 pounds)	205/65 R 16 C	3.3 (48)	3.3 (48)	3.3 (48)	3.3 (48)
260S - GVM 2350 kilograms (5181 pounds)	185/75 R 16 C	3.8 (55)	3.8 (55)	3.8 (55)	3.8 (55)

## Wheels and Tyres

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
260S - Maximum front axle weight 1450 kilograms (3197 pounds) - Maximum rear axle weight 1475 kilograms (3252 pounds)	195/70 R 15 C	3.4 (49)	3.5 (51)	3.4 (49)	3.5 (51)
260S	205/65 R 16 C	3.4 (49)	3.5 (51)	3.4 (49)	3.5 (51)
260S - Sportvan	195/70 R 15 C	3.4 (49)	3.5 (51)	3.4 (49)	3.5 (51)
260S - Sportvan	235/45 R18	2.8 (41)	2.9 (42)	2.8 (41)	2.9 (42)
280S - Maximum rear axle weight 1650 kilograms (3638 pounds)	185/75 R 16 C	3.8 (55)	4.4 (64)	3.8 (55)	4.4 (64)
280S - Maximum rear axle weight 1550 kilograms (3417 pounds)	185/75 R 16 C	3.8 (55)	4.1 (60)	3.8 (55)	4.1 (60)
280S - Maximum rear axle weight 1650 kilograms (3638 pounds)	195/70 R 15 C	3.6 (52)	4.2 (61)	3.6 (52)	4.2 (61)
280S - Maximum rear axle weight 1550 kilograms (3417 pounds)	195/70 R 15 C	3.6 (52)	3.9 (57)	3.6 (52)	3.9 (57)
280S - Maximum rear axle weight 1650 kilograms (3638 pounds)	205/65 R 16 C	3.4 (49)	4 (58)	3.4 (49)	4 (58)
280S - Maximum rear axle weight 1550 kilograms (3417 pounds)	205/65 R 16 C	3.4 (49)	3.7 (54)	3.4 (49)	3.7 (54)
280M	195/70 R 15 C	3.7 (54)	4.2 (61)	3.7 (54)	4.2 (61)
280M	205/65 R 16 C	3.6 (52)	4 (58)	3.6 (52)	4 (58)
280M	185/75 R 16 C	3.9 (57)	4.4 (64)	3.9 (57)	4.4 (64)

## Wheels and Tyres

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
280M - Reduced GVM - UK only	185/75 R 16 C	3.8 (55)	4.1 (60)	3.8 (55)	4.1 (60)
280M - Reduced GVM - Italy only	185/75 R 16 C	3.9 (57)	4.4 (64)	3.9 (57)	4.4 (64)
280M - Reduced GVM - UK only	195/70 R 15 C	3.4 (49)	3.8 (55)	3.4 (49)	3.8 (55)
280M - Reduced GVM - Italy only	195/70 R 15 C	3.7 (54)	4.2 (61)	3.7 (54)	4.2 (61)
280M - Reduced GVM - UK only	205/65 R 16 C	3.4 (49)	3.7 (54)	3.4 (49)	3.7 (54)
280M - Reduced GVM - Italy only	205/65 R 16 C	3.6 (52)	4 (58)	3.6 (52)	4 (58)
300S/M/L	185/75 R 16 C	4.2 (61)	4.7 (68)	4.2 (61)	4.7 (68)
300S/M/L	195/70 R 15 C	4 (58)	4.5 (65)	4 (58)	4.5 (65)
300S/M/L	205/65 R 16 C	3.8 (55)	4.3 (62)	3.8 (55)	4.3 (62)
300L Reduced GVM 2800 kilograms (6160 pounds)	185/75 R 16 C	4.1 (60)	4.4 (64)	4.1 (60)	4.4 (64)
300L Reduced GVM 2800 kilograms (6160 pounds)	195/70 R 15 C	3.9 (57)	4.2 (61)	3.9 (57)	4.2 (61)
300L Reduced GVM 2800 kilograms (6160 pounds)	205/65 R 16 C	3.7 (54)	4 (58)	3.7 (54)	4 (58)
330S/M/L	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350M/L	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)

# Wheels and Tyres

## Chassis cab and Flatbed truck - Rear wheel drive

### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300S/M	205/75 R 16 C	3.5 (51)	4.2 (61)	3.5 (51)	4.2 (61)
330S/M/L	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350S/M/L/EF - Maximum rear axle weight 2450 kilo- grams (5401 pounds)	185/75 R 16 C	4.7 (68)	3.3 (48)	4.7 (68)	3.3 (48)
350EF - Reduced GVM	185/75 R 16 C	4.2 (61)	3.3 (48)	4.2 (61)	3.3 (48)
350L/EF - Maximum rear axle weight 2600 kilograms (5732 pounds)	185/75 R 16 C	4.7 (68)	3.5 (51)	4.7 (68)	3.5 (51)
350S/M/L/EF - Maximum rear axle weight 2450 kilo- grams (5401 pounds)	195/75 R 16 C	4.6 (67)	3.3 (48)	4.6 (67)	3.3 (48)
350L/EF - Maximum rear axle weight 2600 kilograms (5732 pounds)	195/75 R 16 C	4.6 (67)	3.2 (46)	4.6 (67)	3.2 (46)
350S/M/L - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)
350S/M/L - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.8 (70)	3.8 (55)	4.8 (70)

## Wheels and Tyres

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
350EF - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.9 (71)	3.5 (51)	4.9 (71)
350EF - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.9 (71)	3.8 (55)	4.9 (71)
350EF - Reduced GVM	215/75 R 16 C	3.1 (45)	4.9 (71)	3.1 (45)	4.9 (71)
430EF - Maximum rear axle weight 2600 kilograms (5732 pounds)	185/75 R 16 C	4.7 (68)	3.5 (51)	4.7 (68)	3.5 (51)
430M/L/EF - Maximum rear axle weight 2950 kilograms (6504 pounds)	185/75 R 16 C	4.7 (68)	4.1 (60)	4.7 (68)	4.1 (60)
430M/L/EF	195/75 R 16 C	4.6 (67)	3.7 (54)	4.6 (67)	3.7 (54)
460M/L/EF - Maximum rear axle weight 2600 kilograms (5732 pounds)	195/75 R 16 C	4.6 (67)	3.2 (46)	4.6 (67)	3.2 (46)
460M/L/EF - Maximum rear axle weight 3300 kilograms (7275 pounds)	195/75 R 16 C	4.6 (67)	4.3 (62)	4.6 (67)	4.3 (62)

# Wheels and Tyres

## Chassis cab and Flatbed truck - Front wheel drive

### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300S/M	185/75 R 16 C	4.2 (61)	4.7 (68)	4.2 (61)	4.7 (68)
300S/M	195/70 R 15 C	4 (58)	4.5 (65)	4 (58)	4.5 (65)
300S/M	205/65 R 16 C	3.8 (55)	4.3 (62)	3.8 (55)	4.3 (62)
330S/M/L - Front wheel snow chain tyres	195/75 R 16 C	4.1 (60)	N/A	4.1 (60)	N/A
330S/M/L	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
350M/L/EF - Front wheel snow chain tyres	195/75 R 16 C	4.3 (62)	N/A	4.3 (62)	N/A
350M/L/EF	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)

## All-wheel drive

### Tyre Pressures

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
300S	205/75 R 16 C	3.5 (51)	4.2 (61)	3.5 (51)	4.2 (61)
330S/M/L	215/75 R 16 C	3.4 (49)	4.5 (65)	3.4 (49)	4.5 (65)
330S - Reduced GVM	215/75 R 16 C	3.4 (49)	3.7 (54)	3.4 (49)	3.7 (54)
350M/L - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)

## Wheels and Tyres

Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
350M/L - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.8 (70)	3.8 (55)	4.8 (70)
350EF - Maximum front axle weight 1750 kilograms (3868 pounds)	215/75 R 16 C	3.5 (51)	4.9 (71)	3.5 (51)	4.9 (71)
350EF - Maximum front axle weight 1850 kilograms (4079 pounds)	215/75 R 16 C	3.8 (55)	4.9 (71)	3.8 (55)	4.9 (71)

### ECOnetic

#### Tyre Pressures

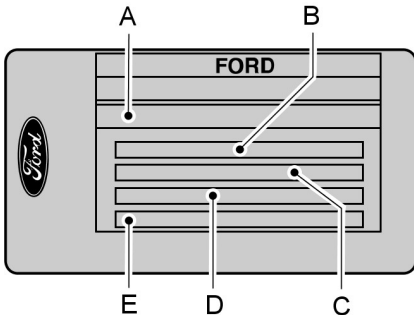
Variant	Tyre Size	Normal Load		Full Load	
		Front	Rear	Front	Rear
		bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )	bar (lbf/in <sup>2</sup> )
ECOnetic 280S	215/75 R 16 C	3 (43)	3.4 (49)	3 (43)	3.4 (49)
ECOnetic 350L	215/75 R 16 C	3.5 (51)	4.8 (70)	3.5 (51)	4.8 (70)

# Vehicle identification

## VEHICLE IDENTIFICATION PLATE

**Note:** The vehicle identification plate design may vary to that shown.

**Note:** The information shown on the vehicle identification plate is dependant upon market requirements.



E85610

- A Vehicle identification number
- B Gross vehicle weight
- C Gross train weight
- D Maximum front axle weight
- E Maximum rear axle weight

The vehicle identification number and maximum weights are shown on a plate located on the lock side of the right-hand front door aperture at the bottom.

## VEHICLE IDENTIFICATION NUMBER



E71369

The vehicle identification number is stamped into the right-hand front wheelhouse. It is also shown on the left-hand side of the instrument panel.

# Capacities and Specifications

## TECHNICAL SPECIFICATIONS

### Vehicle dimensions

#### Short wheelbase

<b>Dimension description</b>	<b>Dimension in mm (inches)</b>
Maximum length - without rear step (Van and Kombi)	4863 (191.5)
Maximum length (Chassis cab and Flatbed truck with flatbed)	5254 (206.9)
Maximum length with rear step (Van and Kombi)	4965 (195.5)
Maximum length with towing equipment (Van and Kombi)	5070 (199.6)
Maximum length with towing equipment (Chassis cab and Flatbed truck with flatbed)	5254 (206.9)
Overall width excluding exterior mirrors (Van and Kombi)	1974 (77.7)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	1998 (78.6)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2198 (86.5)
Overall height - Low roof (Van and Kombi)	1997 - 2089 (78.6 - 82.2)
Overall height - Low roof (Chassis cab and Flatbed truck)	1956 - 2042 (77 - 80.4)
Overall height - Semi high roof (Van and Kombi)	2313 - 2405 (91.1 - 94.7)
Wheelbase (Van and Kombi)	2933 (115.5)
Wheelbase (Chassis cab and Flatbed truck)	3137 (123.5)
Front track	1737 - 1757 (68.4 - 69.2)
Rear track	1642 - 1720 (64.6 - 67.7)

# Capacities and Specifications

## Medium wheelbase

Dimension description	Dimension in mm (inches)
Maximum length - Semi high roof (Van and Kombi)	5230 (205.9)
Maximum length without rear step (Single chassis cab and Flatbed truck with flatbed)	5704 (224.6)
Maximum length without rear step (Double chassis cab and Flatbed truck with flatbed)	5721 (225.2)
Maximum length with rear step (Van and Kombi)	5332 (209.9)
Maximum length with towing equipment (Van and Kombi)	5373 (211.5)
Maximum length with towing equipment (Single chassis cab and Flatbed truck without flatbed)	5481 (215.8)
Maximum length with towing equipment (Double chassis cab and Flatbed truck with flatbed)	5721 (225.2)
Maximum length with towing equipment (Single chassis cab and Flatbed truck with flatbed)	5704 (224.6)
Overall width excluding exterior mirrors (Van and Kombi) - single rear wheels	1974 (77.7)
Overall width excluding exterior mirrors (Van and Kombi) - double rear wheels	2084 (82)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	1998 (78.6)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2198 (86.5)
Overall height - Low roof (Van and Kombi)	1944 - 2069 (76.5 - 81.5)
Overall height - Low roof (Single chassis cab and Flatbed truck)	1948 - 2057 (76.7 - 81)
Overall height - Low roof (Double chassis cab and Flatbed truck)	2031 - 2069 (80 - 81.5)
Overall height - Semi high roof (Van and Kombi)	2302 - 2390 (90.6 - 94.1)
Overall height - Extra high roof (Van and Kombi)	2532 - 2616 (99.7 - 103)
Wheelbase (Van and Kombi)	3300 (129.9)
Wheelbase (Chassis cab and Flatbed truck)	3504 (138)

## Capacities and Specifications

Dimension description	Dimension in mm (inches)
Front track	1737 - 1761 (68.4 - 69.3)
Rear track (All with single rear wheels)	1710 - 1734 (67.3 - 68.3)
Rear track (Chassis cab and Flatbed truck - double rear wheels)	1642 (64.6)

### Long wheelbase

Dimension description	Dimension in mm (inches)
Maximum length - Semi high roof (Van and Kombi)	5751 (226.4)
Maximum length - Extra high roof (Van and Kombi)	5751 (226.4)
Maximum length - Extra high roof (Extended Frame Van and Kombi)	6474 (254.9)
Maximum length (Single chassis cab and Flatbed truck with flatbed)	6175 (243.1)
Maximum length (Double chassis cab and Flatbed truck with flatbed)	6142 (241.8)
Maximum length with rear step (Van and Kombi)	5782 - 6505 (227.6 - 256.1)
Maximum length with rear step (Extended Frame Van and Kombi)	6576 (258.9)
Maximum length with rear step (Single chassis cab extended Frame with flatbed)	6675 (262.8)
Maximum length with rear step (Double chassis cab extended Frame with flatbed)	6592 (259.5)
Maximum length with towing equipment (Van and Kombi)	5798 (228.3)
Maximum length with towing equipment (Extended Frame Van and Kombi)	6522 (256.8)
Maximum length with towing equipment (Chassis cab and Flatbed truck with flatbed)	6175 (240.5)
Maximum length with towing equipment (Chassis cab and Flatbed truck with flatbed) extended frame	6675 (260.2)
Overall width excluding exterior mirrors (Van and Kombi single rear wheel)	1974 (77.7)

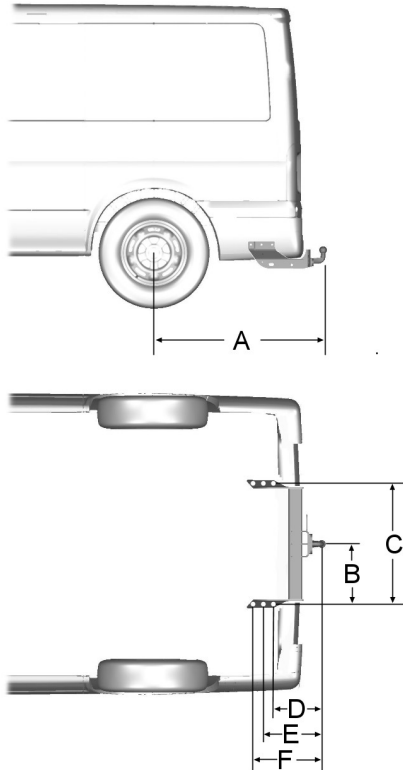
## Capacities and Specifications

<b>Dimension description</b>	<b>Dimension in mm (inches)</b>
Overall width excluding exterior mirrors (Van and Kombi single rear wheel with magnetic door retention)	1999 (78.7)
Overall width excluding exterior mirrors (Van and Kombi dual rear wheel)	2084 (82)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Narrow float)	1998 (78.6)
Overall width excluding exterior mirrors (Chassis cab and Flatbed truck - Wide float)	2198 (86.5)
Overall height - Low roof (Single chassis cab and Flatbed truck)	1972 - 2052 (77.6 - 80.8)
Overall height - Low roof (Double chassis cab and Flatbed truck)	2012 - 2055 (79.2 - 80.9)
Overall height - Semi high roof (Van and Kombi)	2325 - 2402 (91.5 - 95.6)
Overall height - Semi high roof (Extended Frame Van and Kombi)	2383 (93.8)
Overall height - Extra high roof (Extended Frame Van and Kombi)	2608 - 2629 (102.7 - 103.5)
Overall height - Extra high roof (Van and Kombi)	2543 - 2619 (100.1 - 103.1)
Overall height - Extended Frame (Single chassis cab)	2012 - 2052 (79.2 - 80.8)
Overall height - Extended Frame (Double chassis cab)	2012 - 2055 (79.2 - 80.9)
Wheelbase (Van and Kombi)	3750 (147.6)
Wheelbase (Chassis cab and Flatbed truck)	3954 (155.7)
Front track	1737 - 1757 (68.4 - 69.1)
Rear track (Van and Kombi)	1710 - 1720 (67.3 - 67.7)
Rear track (Chassis cab and Flatbed truck - double rear wheels)	1642 (64.6)

# Capacities and Specifications

## Towing equipment dimensions

### Van and Kombi



E71267

Item	Dimension description	Dimension in mm (inches)
A	Wheel centre - end of tow ball (Standard Frame)	1140 (44.9)
A	Wheel centre - end of tow ball (Extended Frame)	1863 (73.3)
B	Centre of tow ball - side member	416 (16.4)

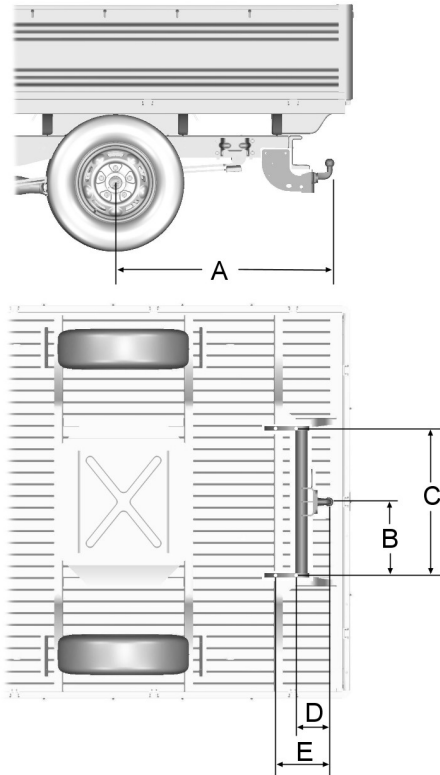
## Capacities and Specifications

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<b>Item</b>	<b>Dimension description</b>	<b>Dimension in mm (inches)</b>
C	Inner side of side member	832 (32.8)
D	Centre of tow ball - centre 1. attachment point	334 (13.1)
E	Centre of tow ball – centre 2. attachment point	403.5 (15.9)
F	Centre of tow ball - centre 3. attachment point	473 (18.6)

# Capacities and Specifications

## Chassis cab and Flatbed truck



E71268

Item	Dimension description	Dimension in mm (inches)
A	Wheel centre - end of tow ball (Standard Frame)	1180 (46.5)
A	Wheel centre - end of tow ball (Extended Frame)	1562 (61.5)
B	Centre of tow ball - side member	418 (16.5)

## Capacities and Specifications

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<b>Item</b>	<b>Dimension description</b>	<b>Dimension in mm (inches)</b>
C	Inner side of side member	836 (32.9)
D	Centre of tow ball - centre 1. attachment point	237 (9.3)
E	Centre of tow ball – centre 2. attachment point	343.5 (13.5)

# Audio introduction

## IMPORTANT AUDIO INFORMATION

### WARNINGS



Due to technical incompatibility, recordable (CD-R) and rewritable (CD-RW) discs may not function correctly.



These units will play compact discs that conform to the International Red Book standard audio specification. Copy protected CDs from some manufacturers do not conform to this standard and playback cannot be guaranteed.



Dual format, dual sided discs (DVD Plus, CD-DVD format), adopted by the music industry, are thicker than normal CDs and consequently playback cannot be guaranteed, and jamming could occur. Irregular shaped CDs and CDs with a scratch protection film or self adhesive labels attached should not be used. Warranty claims, where this type of disc is found to be inside an audio unit returned for repair, will not be accepted.



All units except Sony CD (but not the 6CD) are designed to play commercially pressed 12 cm audio compact discs only. The Sony CD unit will play 8 cm discs with a Sony approved adaptor fitted (CSA-8).



The audio unit may be damaged if unsuitable items like credit cards or coins are pushed inside the CD aperture.

### Audio unit labels

CLASS 1  
LASER PRODUCT

CAUTION—INVISIBLE LASER RADIATION WHEN OPEN  
DO NOT STARE INTO BEAM OR  
VIEW DIRECTLY WITH OPTICAL INSTRUMENTS

### Disc labels

#### Audio CD

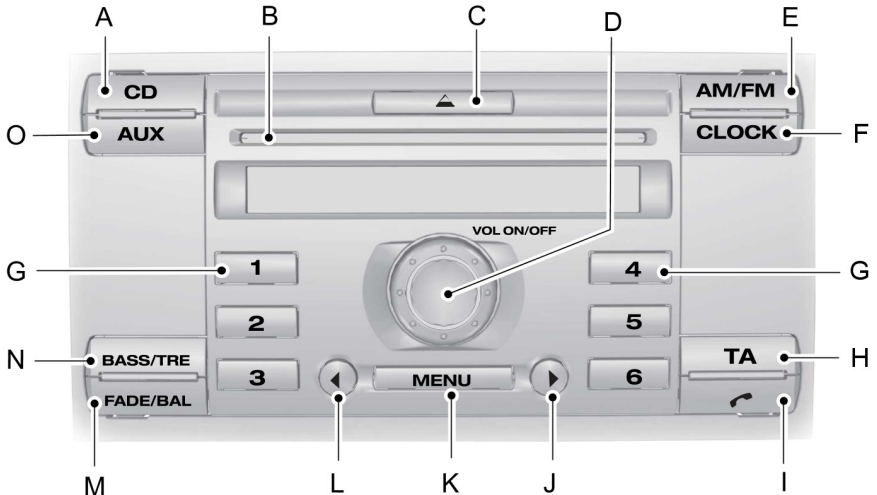


#### MP3



# Audio unit overview

## 6000CD

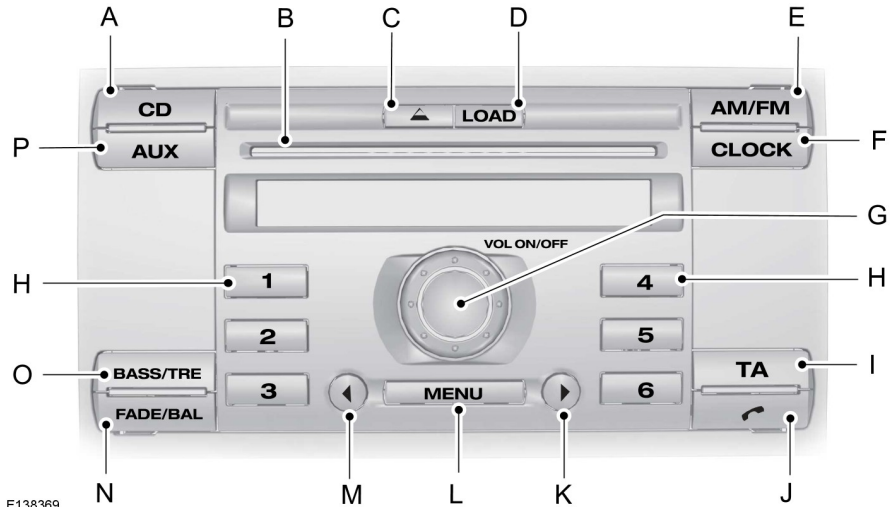


E138367

- A CD select. See **Compact Disc Player** (page 196).
- B CD aperture. See **Loading compact discs** (page 196).
- C CD eject. See **Ejecting compact discs** (page 198).
- D On, off and volume control. See **On/off control** (page 187).
- E Waveband select. See **Waveband button** (page 189).
- F Clock. See **Setting the clock and date on the audio unit** (page 186).
- G Station presets. See **Station preset buttons** (page 189).
- H Traffic announcement. See **Traffic information control** (page 190).
- I Accept call and phone menu. See **Telephone** (page 204).
- J Seek up. See **Station tuning control** (page 191).
- K Menu. See **Audio menu control** (page 187).
- L Seek down. See **Station tuning control** (page 191).
- M Balance and fade control. See **Balance/fade control** (page 187).
- N Bass and treble control. See **Bass/treble control** (page 187).
- O Auxiliary select. See **Auxiliary input (AUX IN) socket** (page 201).

# Audio unit overview

## 6006CDC



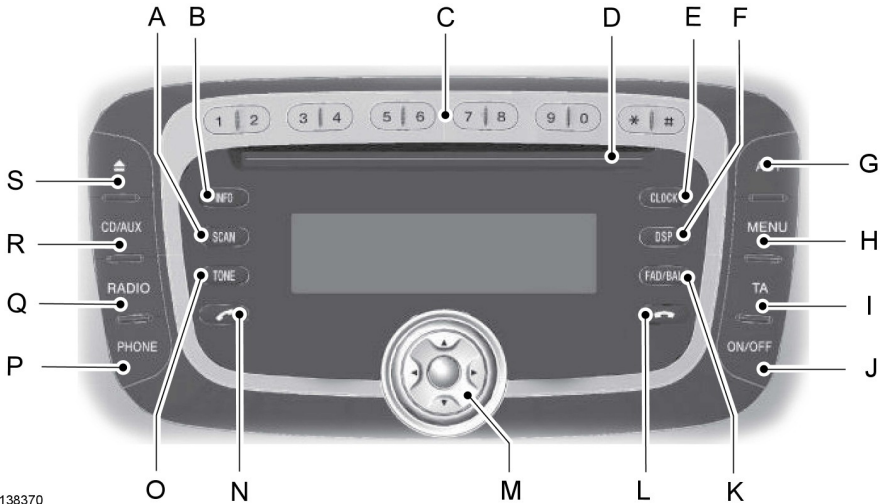
E138369

- A CD select. See **Compact Disc Player** (page 196).
- B CD aperture. See **Loading compact discs** (page 196).
- C CD eject. See **Ejecting compact discs** (page 198). See **Ejecting multiple compact discs** (page 200).
- D CD load. See **Loading compact discs** (page 196).
- E Waveband select. See **Waveband button** (page 189).
- F Clock. See **Setting the clock and date on the audio unit** (page 186).
- G On, off and volume control. See **On/off control** (page 187).
- H Station presets. See **Station preset buttons** (page 189).
- I Traffic announcement. See **Traffic information control** (page 190).
- J Accept call and phone menu. See **Telephone** (page 204).
- K Seek up. See **Station tuning control** (page 191).
- L Menu. See **Audio menu control** (page 187).
- M Seek down. See **Station tuning control** (page 191).
- N Balance and fade control. See **Balance/fade control** (page 187).

# Audio unit overview

- O Base and treble control. See **Bass/treble control** (page 187).
- P Auxiliary select. See **Auxiliary input (AUX IN) socket** (page 201).

## Sony CD



E138370

- A Scan. See **Station tuning control** (page 191). See **Compact disc track scanning** (page 198).
- B Information. See **Audio unit operation** (page 187). See **Audio unit menus** (page 193). See **Compact Disc Player** (page 196). See **Audio Troubleshooting** (page 202).
- C Station presets. See **Station preset buttons** (page 189).
- D CD aperture. See **Loading compact discs** (page 196).
- E Clock. See **Setting the clock and date on the audio unit** (page 186).
- F DSP select. See **Digital signal processing (DSP)** (page 193).
- G Autostore. See **Autostore control** (page 189).
- H Menu. See **Audio menu control** (page 187).
- I Traffic announcement. See **Traffic information control** (page 190).
- J On and off control. See **On/off control** (page 187).
- K Balance and fade control. See **Balance/fade control** (page 187).

## Audio unit overview

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- L End call. See **Telephone** (page 204).
- M Volume control, navigation buttons and select button.
- N Accept call. See **Telephone** (page 204).
- O Tone. See **Bass/treble control** (page 187).
- P Phone menu. See **Telephone** (page 204).
- Q Radio and waveband select. See **Waveband button** (page 189).
- R Auxiliary and CD select. See **Auxiliary input (AUX IN) socket** (page 201). See **Compact Disc Player** (page 196).
- S CD eject. See **Ejecting compact discs** (page 198).

# Audio System Security

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## SECURITY CODE

Each unit incorporates a unique code that must be entered before the unit will operate.

If the battery is disconnected or if the unit has been removed from the vehicle, the code must be re-entered before the unit will operate.

## LOST SECURITY CODE

If you lose the unique code, contact your dealer and supply details of your audio unit along with some proof of identity.

## ENTERING A SECURITY CODE

If **CODE ----**, **CODE 0000** or **ENTER KEYCODE** appears in the display when you switch on the audio unit, you must enter the unique code using the station preset buttons.

### 6000CD and 6006CDC

1. Press preset button **1** repeatedly until the first digit of the unique code is shown in the display.
2. Press preset buttons **2**, **3** and **4** in the same way for remaining three digits.
3. Make sure that the complete code is correct before pressing preset button **5** to confirm your selection.

## Sony CD

1. Using the station preset buttons enter the unique code.
2. If you make a mistake entering the code, re-enter the digits by continuing to select buttons 0-9. The display will advance from digit position 1 to 4 and then back again.
3. Make sure that the complete code is correct before pressing either the **\*** preset button or the button between the navigation buttons to confirm your selection.

## INCORRECT SECURITY CODE

Up to a maximum of 10 unique code entry attempts are allowed with various consequences if you get it wrong.

The number of attempts will be shown in the display.

If the display reverts to **CODE** another entry attempt may be made immediately.

If the display shows **WAIT 30**, the unit will be locked for 30 minutes. Wait until the timer counts down to zero. When **CODE** is shown in the display, enter the correct code.

**Note:** *After 10 incorrect attempts the unit will be permanently inoperative and **LOCKED** will be shown in the display. See your dealer.*

# Audio Unit Clock and Date Displays

## SETTING THE CLOCK AND DATE ON THE AUDIO UNIT

### 6000CD and 6006CDC

#### Changing the date and time

Press the **CLOCK** button to display the date and time.

**Note:** *If you do not press another button within 30 seconds of pressing the **CLOCK** button, the display will return to its previous setting.*

1. Using the seek up or seek down button select the date or time value that you wish to change. The selected value will flash in the display.
2. Rotate the volume control to change the selected date or time value.
3. Using the seek up or seek down button select additional date or time values that you wish to change.
4. Rotate the volume control to change the selected date or time value.
5. Press the **CLOCK** button to exit and save your settings.

**Note:** *If you do not press the **CLOCK** button within 30 seconds of changing a date or time value, the display will exit and save the new values automatically.*

**Note:** *Press and hold the **CLOCK** button for more than two seconds to automatically select the hour value for winter or summer time adjustment.*

#### 12/24 hour format

1. Press the **MENU** button repeatedly until the 12/24 icon is shown in the display.
2. Using the seek up or seek down button select your required setting.
3. Press the **MENU** button repeatedly or allow the system to time out to confirm your selection.

## Sony CD

### Changing the date and time

1. Press the **CLOCK** button.
2. Press the left or right navigation button until the date or time value that you wish to change flashes in the display.
3. Using the up or down navigation button change the selected date or time value.
4. Using the left and right navigation buttons select additional date or time values that you wish to change. The selected value will flash in the display.
5. Repeat steps three and four as necessary.
6. Press the **CLOCK** button or the button between the navigation buttons to exit and save your settings.

### 12/24 hour format

1. Press the **MENU** button.
2. Press the up or down navigation button until the 12/24 icon is shown in the display.
3. Using the left or right navigation button select the required setting.
4. Press the **MENU** button or the button between the navigation buttons to confirm your selection.

# Audio unit operation

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## ON/OFF CONTROL

Press the on/off control. This will also operate the unit for up to one hour with the ignition turned off.

The radio will switch off automatically after one hour.

## BASS/TREBLE CONTROL

The bass function is used to adjust the low-frequency response of the audio unit.

The treble function is used to adjust the high-frequency response of the audio unit.

### 6000CD and 6006CDC

**Note:** *The selected level will be shown in the display.*

1. Press the **BASS/TRE** button once for bass or twice for treble.
2. Use the volume control or on some units the seek up or seek down button to make the necessary adjustment.

### Sony CD

**Note:** *You can adjust these settings separately for CD, Radio and Aux.*

**Note:** *The selected level will be shown in the display.*

1. Press the **TONE** button once for bass or twice for treble.
2. Use the up and down navigation buttons to make the necessary adjustment.

## BALANCE/FADE CONTROL

The balance function is used to adjust the sound distribution between the left and right speakers.

The fade function is used to adjust the sound distribution from front to rear in vehicles fitted with rear speakers.

### 6000CD and 6006CDC

1. Press the **FADE/BAL** button once for fade or twice for balance.
2. Use the volume control or on some units the seek up or seek down button to make the necessary adjustment.

### Sony CD

1. Press the **FAD/BAL** button once for fade or twice for balance.
2. Use the up and down navigation buttons for fade adjustment, and the left and right navigation buttons for balance adjustment.

The selected level will be shown in the display.

## AUDIO MENU CONTROL

Use the **MENU** button to access functions that cannot be selected directly via one of the control buttons. Press the **MENU** button for first level functions, or press and hold the **MENU** button for other second level functions (not available on Sony audio units).

# Audio unit operation

## 6000CD and 6006CDC

Menu functions			
First level			Second level
During radio reception	During tape playback	During CD playback	During all functions
Manual tuning	12/24 hour	Scan	Traffic local or distant
Scan tuning	AVC*	Shuffle	AF**
12/24 hour	ADV menu	Repeat	REG
AVC*	-	Comp	News
ADV menu	-	12/24 hour	CLIP
-	-	AVC*	VID
-	-	ADV menu	Bluetooth enable/disable

**Note:** The sequence in which functions appear may vary for different audio units and vehicles.

**Note:** Second level functions (advanced) can also be entered by selecting ADV menu from the first level menu.

\*Automatic volume control.

\*\* Alternative frequencies.

## Sony CD

Menu functions	
During radio reception	During CD playback
12/24 hour	12/24 hour
CLIP ON/OFF	CLIP ON/OFF
News ON/OFF	News ON/OFF
AVC <sup>1</sup>	AVC <sup>1</sup>
AF <sup>2</sup>	AF <sup>2</sup>

# Audio unit operation

Menu functions	
During radio reception	During CD playback
TA <sup>3</sup> volume	TA <sup>3</sup> volume
Traffic local or distant	Traffic local or distant
Regional ON/OFF	Shuffle
-	Repeat
-	Comp ON/OFF

**Note:** The sequence in which functions appear may vary for different audio units and vehicles.

<sup>1</sup>Automatic volume control.

<sup>2</sup>Alternative frequencies.

<sup>3</sup>Traffic announcement.

## Sony CD with Bluetooth

Pressing **PHONE** followed by the **MENU** button will access the following options:

- No active phone or Active phone.
- Debond BT device.
- Reject calls ON/OFF.
- Bluetooth ON/OFF.

## STATION PRESET BUTTONS

This feature allows you to store your favourite stations so that they can be recalled by selecting the appropriate waveband and pressing one of the preset buttons.

1. Select a waveband.
2. Tune to the station required.
3. Press and hold one of the preset buttons. The audio unit will mute. When sound returns the station has been stored.

This can be repeated on each waveband and for each preset button.

**Note:** When you drive to another part of the country, FM RDS (Radio Data System) stations that broadcast on alternative frequencies are stored on the preset buttons.

## WAVEBAND BUTTON

**Note:** The **AM/FM** or **RADIO** button can also be used to return to radio reception when you have been listening to another source.

## 6000CD and 6006CDC

Press the **AM/FM** button to select from the wavebands available.

## Sony CD

Press the **RADIO** button to select from the wavebands available.

## AUTOSTORE CONTROL

**Note:** This function will overwrite the previously stored autostore preset stations.

# Audio unit operation

**Note:** The autostore waveband can also be used to store stations manually in the same way as other wavebands.

**Note:** The strongest signals available on the selected waveband will be stored.

The sound is muted and AUTOSTORE will be shown in the display while the unit searches through the frequencies.

When the search is complete, sound is restored and the strongest signals are stored on the autostore presets.

## 6000CD and 6006CDC

Press and hold the **AM/FM** button.

### Sony CD

Press and hold the **AST** or **RADIO** button.

## TRAFFIC INFORMATION CONTROL

Many stations that broadcast on the FM waveband have a TP code to signify that they carry traffic programme information.

### Activating traffic announcements

Before you can receive traffic announcements, you must press the **TA** button. Either TA-D or TA-L will be shown in the display to indicate that the feature is switched on.

If you are already tuned to a station that broadcasts traffic information, TP will also be shown in the display. Otherwise the unit will search for a traffic programme and display TP SEEK while doing so. If it cannot locate such a station, NOT FOUND will be shown in the display.

TP will be shown within a box in the display when you are tuned to a station providing traffic information from a linked RDS (radio data system) or EON (enhanced other network) station.

When traffic information is broadcast, it will automatically interrupt normal radio or CD playback and TRAFFIC will be shown in the display.

If the traffic signal weakens, TP will flash in the display. Press the seek up or seek down button (the left or right navigation button on Sony audio units) to find another station.

**Note:** If this happens during CD or AUX playback or, on certain models, with the radio volume set to zero, the unit will retune automatically if the station is not available.

If a non-traffic station is selected or recalled using a preset button, the audio unit will remain on that station unless **TA** is turned off, then on again.

**Note:** If **TA** is on and you select a preset or manual tune to a non **TA** station no traffic announcement will be heard.

### Local or distant traffic

The number of RDS or EON traffic announcements may become excessive in some areas so there is an option to select between local traffic information and all available information.

## 6000CD and 6006CDC

1. Press and hold the **MENU** button until the display changes.
2. Press the **MENU** button repeatedly until TA is shown in the display.
3. Press the seek up or seek down button to select either local (TA LOCAL) or distant (TA DIST) traffic announcements.
4. Press the **MENU** button or allow the menu to time out to confirm your selection.

**Note:** Either TA-L or TA-D will be shown in the display.

# Audio unit operation

## Sony CD

1. Press the **MENU** button and use the up or down navigation button to select the TA display.
2. Press the left or right navigation button to select your required setting.
3. Press the **MENU** button to confirm your selection.

## Traffic announcement volume

Traffic announcements interrupt normal broadcasts at a preset minimum level that is usually louder than normal listening volumes.

## To adjust the preset volume

### 6000CD and 6006CDC

1. Press and hold the **TA** button.
2. Rotate the volume control to make the necessary adjustment.

**Note:** *The selected level will be shown in the display.*

## Sony CD

1. Press and hold the **TA** button.
2. Press the left or right navigation button to make the necessary adjustment.

**Note:** *The selected level will be shown in the display.*

## Ending traffic announcements

The audio unit will return to normal operation at the end of each traffic announcement. To end the announcement prematurely, press **TA** during the announcement.

**Note:** *If you press TA at any other time it will switch announcements off.*

## STATION TUNING CONTROL

### DAB service linking

**Note:** *The DAB service linking is as per default off.*

**Note:** *Service linking allows cross-referencing to other corresponding frequencies of the same station, for example FM and other DAB ensembles.*

**Note:** *The system will automatically change to another corresponding station if the current one becomes unavailable, for example when leaving the coverage area.*

### Switching DAB service linking on

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until DIGITAL RADIO SERVICE LINK is shown in the display.
3. Using the left or right navigation button select AUTO.
4. Press the **MENU** button or the button between the navigation buttons to confirm your selection.

### Switching DAB service linking off

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until DIGITAL RADIO SERVICE LINK is shown in the display.
3. Using the left or right navigation button select OFF.
4. Press the **MENU** button or the button between the navigation buttons to confirm your selection.

# Audio unit operation

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## Seek tuning

### 6000CD and 6006CDC

Select a waveband and briefly press the seek up or seek down button. The unit will stop at the first station it finds in the direction you have chosen.

### Sony CD

Select a waveband and briefly press the up or down navigation button. The unit will stop at the first station it finds in the direction you have chosen.

## Manual tuning

### 6000CD and 6006CDC

1. Select a waveband and press the **MENU** button until MAN is shown in the display.
2. Press the seek up or seek down button to tune up or down the waveband in small increments or press and hold to increment quickly, until you find a station you want to listen to.

### Sony CD

Select a waveband and briefly press the up or down navigation button to tune up or down the waveband in small increments. The display shows the frequency selected.

## Scan tuning

The scan function allows you to listen to 10 seconds of each station detected.

### 6000CD and 6006CDC

1. Press the **MENU** button repeatedly until SCAN is shown in the display.
2. Press the seek up or seek down button to scan up or down the selected waveband.
3. Depending on the audio unit, press the seek up or seek down button or the **MENU** button to continue listening to a station.

### Sony CD

1. Press the **SCAN** button. SCAN flashes or SCANNING is shown in the display.
2. Press the left or right navigation button to scan within a waveband.
3. Press the **SCAN** button to continue listening to a station.

# Audio unit menus

## AUTOMATIC VOLUME CONTROL

This function adjusts the volume level to compensate for engine and road speed noise.

### 6000CD and 6006CDC

1. Press the **MENU** button repeatedly until AVC is shown in the display.
2. Use the seek up or seek down button to adjust the setting.
3. Press the **MENU** button or allow the system to time out to confirm your selection.

### Sony CD

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until AVC is shown in the display.
3. Press the **MENU** button or allow the system to time out to confirm your selection.

## DIGITAL SIGNAL PROCESSING (DSP)

### DSP occupancy

This feature takes into account the differences in distance from the various speakers in the vehicle to each seat. Select the sitting position for which the audio is to be correctly enhanced.

### DSP equaliser

Select the music category that most suits your listening preference. The audio output will change to enhance the particular style of music chosen.

## Changing the DSP settings

1. Press the **DSP** button once for occupancy and twice for equaliser. For item location: See **Audio unit overview** (page 181).
2. Use the up and down navigation buttons to select the required setting.
3. Press the button between the navigation buttons to confirm your selection.

## AUDIO DISTORTION REDUCTION (CLIP)

This function automatically detects sound distortion and reduces the volume level until the distortion has been eliminated. This means that whilst the display might change numerically when you raise the volume manually with the control, there may be no actual increase in sound.

### 6000CD and 6006CDC

1. Press and hold the **MENU** button until the display changes.
2. Press the **MENU** button repeatedly until CLIP is shown in the display.
3. Using the seek up or seek down button turn the function on or off.
4. Press the **MENU** button or allow the system to time out to confirm your selection.

### Sony CD

1. Press the **MENU** button briefly.
2. Using the up or down navigation button scroll through the display until CLIP is shown in the display.
3. Press the **MENU** button or allow the system to time out to confirm your selection.

# Audio unit menus

## ALTERNATIVE FREQUENCIES

Many programmes broadcast on the FM waveband have a PI (programme identification) code, which can be recognised by audio units.

If your radio has AF (alternative frequencies) tuning switched on and you move from one transmission area to another, this function will search for and switch to a stronger station signal, if one can be found.

Under certain conditions, however, AF tuning may temporarily disrupt normal reception.

When selected, the unit continually evaluates signal strength and, if a better signal becomes available, the unit will switch to that alternative. It mutes while it checks a list of alternative frequencies and, if necessary, it will search once across the selected waveband for a genuine alternative frequency.

It will restore radio reception when it finds one or, if one is not found, the unit will return to the original stored frequency. On certain units, NOT FOUND will be shown in the display.

With AF-MAN selected, the unit operates in a similar way to AF-AUTO or AF-ON, but only searches for an alternative frequency when prompted by pressing a preset button.

With AF-OFF selected, the original stored frequency remains selected. In this mode, AF-OFF will be displayed every time the unit is turned on.

## 6000CD and 6006CDC

1. Press and hold the **MENU** button until the display changes.
2. Press the **MENU** button repeatedly until AF is shown in the display.

3. Using the seek up or seek down button select the required setting.
4. Press the **MENU** button or allow the system to time out to confirm your selection.

## Sony CD

1. Press the **MENU** button briefly.
2. Using the left or right navigation button scroll through the display until the required setting is shown in the display.
3. Press the **MENU** button to confirm your selection.

## REGIONAL MODE (REG)

The function REG (regional mode) controls the behaviour of AF switching between regionally related networks of a parent broadcaster. A broadcaster may run a fairly large network across a large part of the country. At various times of the day this large network may be broken down into a number of smaller regional networks, typically centred on major towns or cities. When the network is not split into regional variants, the whole network carries the same programming.

Regional mode ON: This prevents random AF switches when neighbouring regional networks are not carrying the same programming.

Regional mode OFF: This allows a larger coverage area if neighbouring regional networks are carrying the same programming, but can cause random AF switches if they are not.

## 6000CD and 6006CDC

1. Press and hold the **MENU** button until the display changes.
2. Press the **MENU** button repeatedly until REG is shown in the display.

## Audio unit menus

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3. Using the seek up or seek down button turn the function on or off.
4. Press the **MENU** button or allow the system to time out to confirm your selection.
3. Press the button between the navigation buttons to make your selection.
4. Using the left or right navigation button turn the function on or off.

### Sony CD

1. Press the **MENU** button briefly.
2. Using the up or down navigation button scroll through the display until REGIONAL is shown in the display.
3. Press the **MENU** button or allow the system to time out to confirm your selection.

5. Press the **MENU** button or the button between the navigation buttons to confirm your selection.

### NEWS BROADCASTS

Some audio units interrupt normal reception to broadcast news bulletins from stations on the FM waveband linked stations, in the same way as traffic information is provided.

During news broadcasts, the display alternates between the station name and NEWS. News interrupts are broadcast at the same preset volume level as traffic announcements.

### 6000CD and 6006CDC

1. Press and hold the **MENU** button until NEWS is shown in the display.
2. Using the seek up or seek down button turn the function on or off.
3. Press the **MENU** button to confirm your selection.

### Sony CD

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until NEWS is shown in the display.

# Compact Disc Player

## LOADING COMPACT DISCS

### 6000CD

Always check that the CD aperture is empty before inserting a CD.

Insert a CD, label side up, into the audio unit.

### 6006CDC

#### To load a single CD

Press and release the **LOAD** button or press a preset button. **WAIT** will be shown in the display.

When the message changes to **LOAD CD**, and lights flash in the CD aperture, insert a CD, label side up, into the audio unit.

#### To load more than one CD

#### WARNING



If the power to the audio unit has been disconnected, then reconnected, the unit will automatically check for the presence of discs. This will take approximately 25 seconds. During this time all functions except Keypcode entry will be locked out.

1. Press and hold the **LOAD** button until **LOAD ALL** is shown in the display.
2. When the message changes to **LOAD CD**, and lights flash in the CD aperture, insert a CD, label side up, into the audio unit.
3. A numbered disc icon will flash in the display and **LOAD** will be shown in the display. When the disc is loaded, a number in one of the disc icons will indicate its location.

4. When the message changes to **WAIT** and then to **LOAD CD** you can load another CD.
5. Repeat the last step to load more CDs or allow the unit to time out if you have finished loading your discs.

**Note:** Do not try to insert a CD when **WAIT** is shown in the display.

**Note:** Do not insert two CDs in a figure of eight fashion with edges overlapping.

**Note:** You can only load a maximum of six CDs.

**Note:** If the **LOAD** button is pressed again, **CDC FULL** will be shown in the display.

### Sony CD

Always check that the CD aperture is empty before inserting a CD.

Insert a CD, label side up, into the audio unit.

**LOADING, READING CD** and **AUDIO CD** or **MP3 CD** will be shown in the display, and playback will start automatically.

## TRACK SELECTION

### 6000CD and 6006CDC

Press the seek up button once to move to the next track or press it repeatedly to access later tracks.

Press the seek down button once to replay the current track. If pressed within two seconds of the start of a track, the previous track will be selected.

Press the seek down button repeatedly to select previous tracks.

### Sony CD

Press the up navigation button once to move to the next track or press it repeatedly to access later tracks.

# Compact Disc Player

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Press the down navigation button once to replay the current track. If pressed within two seconds of the start of a track, the previous track will be selected.

Press the down navigation button repeatedly to select previous tracks.

## COMPACT DISC PLAYBACK

**Note:** During playback, the display indicates the disc, track and time that has elapsed since the start of the track.

**Note:** On CD changer audio units, if two or more CD's are loaded one after the other, playback will start with the last CD loaded.

### 6000CD and 6006CDC

During radio reception, press the **CD** button once to start CD playback.

Playback will start immediately after a disc is loaded.

### Sony CD

During radio reception, press the **CD/AUX** button once to start CD playback.

Playback will start immediately after a disc is loaded.

## COMPACT DISC SELECTION

### 6006CDC

On multiple CD units, CD's are normally played sequentially in ascending order.

You can, however, switch to a CD of your choice by pressing the preset button, which has the number corresponding to the disc you want to play. The display will show which CD is selected.

The unit remembers which CD's are available so it will not select a CD that it knows to be missing. If you select a missing CD using the preset buttons, **NO CD** will be shown in the display and playback will continue from the current disc.

**Note:** If a selected CD is damaged or upside down, the warning **CD ERROR** flashes and the CD number is displayed. The unit then selects the next available CD.

## FAST FORWARD/REVERSE

### 6000CD and 6006CDC

Press and hold the seek up or the seek down button to search forwards or backwards within the tracks on the disc.

### Sony CD

Press and hold the left or right navigation button to search forwards or backwards within the tracks on the disc.

## SHUFFLE/RANDOM

Random track playback, also known as shuffle, plays all tracks on a CD in random order.

### 6000CD and 6006CDC

**Note:** When **SHUFF CD** is selected only the tracks on the current CD will be shuffled. When **SHUF ALL** is selected the tracks on all the CD's will be shuffled.

1. Press the **MENU** button repeatedly until **SHUF** is shown in the display.
2. Using the seek up or seek down button scroll through the display until **SHUF ALL** or **SHUFF CD** is shown in the display.
3. Using the seek up or seek down button select the next track to shuffle if required.

# Compact Disc Player

**Note:** With the function on, *SHUFFLE* will be shown in the display as each new track is selected.

## Sony CD

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until *SHUFFLE* is shown in the display.
3. Use the left or right navigation button to switch the function on and off.

## COMPACT DISC TRACK COMPRESSION

### 6000CD and 6006CDC

1. Press **MENU** repeatedly until *COMP* is shown in the display.
2. Using the seek up or seek down button turn the function on or off.
3. Press the **MENU** button to confirm your selection.

## Sony CD

1. Press the **MENU** button.
2. Using the up or down navigation button scroll through the display until *COMP* is shown in the display.
3. Press the button between the navigation buttons to make your selection.
4. Using the left or right navigation button turn the function on or off.
5. Press the **MENU** button or the button between the navigation buttons to confirm your selection.

## COMPACT DISC TRACK SCANNING

The *SCAN* function allows you to preview each track for approximately 10 seconds.

### 6000CD and 6006CDC

**Note:** When selected, *SCAN* will be shown briefly in the display at the start of each track.

1. Press the **MENU** button repeatedly until *SCAN* is shown in the display.
2. Using the seek up or seek down button select either **SCAN CD** or **SCAN ALL**.
3. Press the seek up or seek down button again to continue listening to a track.

## Sony CD

1. Press the **SCAN** button once to scan each track.
2. Press the **SCAN** button again to select **SCAN OFF**.

## EJECTING COMPACT DISCS

**Note:** Radio reception is restored automatically when the *EJECT* button is pressed.

**Note:** If the *EJECT* button is pressed in error, press the button again to cancel.

**Note:** If the CD is not removed it will be pulled back into the audio unit.

### 6000CD

Press the **EJECT** button at any time and remove the CD.

### 6006CDC

Press the **EJECT** button at any time and remove the CD being played or use a preset button to select the CD you want to remove. **SELECT** or **SELECT CD** followed by **REMOVE CD** will be shown in the display.

# Compact Disc Player

## Sony CD

**Note:** If no CD is loaded when the **EJECT** button is pressed, **NO CD** will be shown in the display.

Press the **EJECT** button at any time and remove the CD. **EJECTING** and **PLEASE REMOVE** will be shown in the display.

## REPEAT COMPACT DISC TRACKS

### 6000CD

1. Press the **MENU** button repeatedly until **REPEAT** is shown in the display.
2. Using the seek up or seek down button choose between **OFF** and **TRK**.

### 6006CDC

1. Press the **MENU** button repeatedly until **REPEAT** is shown in the display.
2. Using the seek up or seek down button choose between **ALL** (default), **CD** and **TRK**.

## Sony CD

1. Press the **MENU** button.
2. Using the up or down navigation buttons scroll through the display until **REPEAT** is shown in the display.
3. Using the left or right navigation buttons select **REPEAT TRACK** or **REPEAT OFF**.
4. Press the **MENU** button to confirm your selection.

## MP3 FILE PLAYBACK

**Note:** Some copy protected audio files may not be read by the CD player.

The CD player also supports MP3 and WMA format audio files.

When a CD containing audio is inserted into the CD player the disc's directory structure is read in. It may take a while before playback starts and is dependant on the quality of the disc.

MP3 tracks may be recorded on the CD in several ways. They can all be placed in the root directory like a conventional audio CD, or they can be placed in folders that may represent, for example, an album, an artist, or a genre.

## Playing a multi session disc

The normal playing sequence on CD's with multiple folders is to play the tracks in the first folder, then the tracks in any folders nested inside the first folder, then move onto the second folder, and so on. For example, if folder 1 has folders 1a and 1b within it, and folder 2 contains folder 2a, the playing sequence will be folder 1, 1a, 1b, 2, 2a.

When the playback of a file is finished the playback of the other files in the same directory continues. Directory change takes place automatically when all files in the current directory have been played back.

## MP3 DISPLAY OPTIONS

When an MP3 disc is playing, certain information encoded in each track can be displayed. Such information will normally include:

- The file name
- The folder name
- ID3 information which might be the album or artist's name.

The unit will normally show the file name that is playing. To select one of the other items of information, press the **INFO** button repeatedly until the required item is shown in the display.

# Compact Disc Player

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**Note:** *If the ID3 information selected is unavailable, **NO MP3 TAG** will be shown in the display.*

## CD text display options

When an audio disc with CD text is playing, limited information encoded in each track can be displayed. Such information will normally include:

- The disc name
- The artist name
- The track name.

**Note:** *These display options are selected in the same way as MP3 displays. **NO DISC NAME** or **NO TRACK NAME** will be shown in the display if no information has been encoded.*

## ENDING COMPACT DISC PLAYBACK

### 6000CD and 6006CDC

Press the **AM/FM** or **AUX** button.

**Note:** *This will not eject the CD; the disc will merely pause at the point where radio reception was restored.*

To resume CD playback, press the **CD** button again.

### Sony CD

Press the **RADIO** or **CD/AUX** button.

**Note:** *This will not eject the CD; the disc will merely pause at the point where radio reception was restored.*

To resume CD playback, press the **CD/AUX** button.

## EJECTING MULTIPLE COMPACT DISCS

### 6006CD

Press and hold the **EJECT** button until **EJECT ALL** is shown in the display.

The display will alternate between **REMOVE** and **WAIT**.

When **REMOVE** is displayed, remove a disc from the unit. This routine repeats until all discs have been removed.

## Auxiliary input (AUX IN) socket

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**Note:** *For optimum performance when using any auxiliary device set the volume on the device high. This will reduce audio interference when charging the device via the vehicle power supply socket.*

When fitted the Auxiliary input (AUX IN) socket permits an auxiliary device, such as an MP3 player, to be linked into the vehicle audio system. Output can be played through the vehicle speakers.

To connect an auxiliary device, plug it into the AUX IN socket using a 3.5 mm conventional audio jack connector.

Select the auxiliary input via the **AUX** button and playback will be heard through the vehicle speakers. AUX will be shown in the display. Volume, treble and bass can be adjusted on the audio unit as normal.

The audio unit buttons can also be used to restore playback from the audio unit, while the auxiliary device remains connected.

# Audio Troubleshooting

## AUDIO TROUBLESHOOTING

Audio unit display	Rectification
CD ERROR PLEASE CHECK CD CDC ERROR	General error message for CD fault conditions, for example cannot read the CD, data-CD inserted. May also indicate a audio unit malfunction. Make sure that the disc is correctly loaded, clean and re- load the CD or replace the CD with a known music CD. See <b>Ejecting compact discs</b> (page 198). See <b>Ejecting multiple compact discs</b> (page 200). See <b>Loading compact discs</b> (page 196). If error continues. See your dealer.
NO CD NO CDS NO CD #	Message to indicate that the audio unit or CD changer is empty. Insert a CD. See <b>Loading compact discs</b> (page 196).
HIGH TEMP CD DRIVE HIGH TEMP	Ambient temperature too hot – unit will not work until it has cooled down.
SLOT FULL	Message to indicate that the CD slot is already loaded. Eject the CD from selected slot before attempting load operation or select another slot location. See <b>Loading compact discs</b> (page 196).
CDC FULL	Message to indicate that the audio unit is full. See <b>Ejecting compact discs</b> (page 198). See <b>Ejecting multiple compact discs</b> (page 200).
DATA CD	An incompatible CD has been inserted, for example not an audio CD. See <b>Ejecting compact discs</b> (page 198). See <b>Ejecting multiple compact discs</b> (page 200).
CODE ----	Message to prompt you for the Keycode. See <b>Entering a security code</b> (page 185).
WAIT	Message to inform you to wait until the next keycode entry attempt can be made. See <b>Incorrect security code</b> (page 185).
TRIES	Message indicates the number of incorrect input attempts. See <b>Incorrect security code</b> (page 185).

# Audio Troubleshooting

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Audio unit display	Rectification
LOCKED	Message to inform you that audio unit security system has locked the unit after repeated incorrect keycode entries. See your dealer.
KEYCODE.... ENTER KEYCODE....	Message to prompt you for the Keycode. See <b>Entering a security code</b> (page 185).
INCORRECT	Message to inform you that the entered keycode is incorrect. See <b>Incorrect security code</b> (page 185).

# Telephone

## GENERAL INFORMATION

### CAUTION


 Using the system with the engine off will drain the battery.

This section describes the functions and features of the Bluetooth mobile phone hands free system.

The Bluetooth mobile phone part of the system provides interaction with the audio or navigation system and your mobile phone. It allows you to use the audio or navigation system to make and receive calls without having to hold your mobile phone.

## Compatibility of phones

### CAUTION

 As no common agreement exists, mobile phone manufacturers are able to implement a variety of profiles in their Bluetooth devices. Because of this, an incompatibility can occur between the phone and hands-free system, which in some cases may significantly degrade the system performance. To avoid this situation, only recommended phones should be used.

Please visit the website [www.ford-mobile-connectivity.com](http://www.ford-mobile-connectivity.com) for full details.

## TELEPHONE SETUP

### Phonebook

After start up access to the phonebook list can be delayed for several minutes, depending upon the size.

## Phonebook categories

Depending on your phonebook entry, different categories can be displayed in the audio unit.

For example:

M	Mobile
O	Office
H	Home
F	Fax

**Note:** *Entries may be displayed without a category attachment.*

The category can also be indicated as an icon:



Phone



Mobile



Home



Office



Fax

## Making a phone an active phone

When using the system for the first time, no phone is connected to the system.

### Bluetooth phone

After bonding a Bluetooth phone to the system, this becomes the active phone. For further information refer to the phone menu.

# Telephone

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Select the phone from the active phone menu.

Turning the ignition and radio or navigation unit back on again, the last active phone is picked up by the system.

**Note:** *In some cases the Bluetooth connection must also be confirmed on the phone.*

## Bond another Bluetooth phone

Bond a new Bluetooth phone as described in the requirements for a Bluetooth connection.

Phones stored in the system are accessible by using the phone list on the audio unit.

**Note:** *A maximum of six devices may be bonded. If six Bluetooth devices have already been bonded, one of these has to be debonded in order to bond a new device.*

## BLUETOOTH SETUP

Before you can use your telephone with your vehicle it must be bonded to the vehicle telephone system.

### Handling of phones

Up to six Bluetooth devices can be bonded to the vehicle system.

**Note:** *If there is an ongoing call when the phone in use is selected as the new active phone, the call is transferred to the vehicle audio system.*

**Note:** *Even if connected to the car system, your phone can still be used in the usual way.*

### Requirements for Bluetooth connection

The following are required before a Bluetooth phone connection can be made.

1. The Bluetooth feature must be activated on the phone and on the audio unit. Make sure the Bluetooth menu option in the audio unit is set to **ON**. For information on phone settings, refer to your phone user guide.
2. In the Bluetooth menu on your phone, search for **Ford Audio** and select it.
3. Enter the code number shown on the vehicle display using the phone keypad. If no code number is shown on the display, enter the Bluetooth PIN number 0000 using the phone keypad. Now enter the Bluetooth PIN number shown on the vehicle display.
4. If your mobile phone asks you to authorize the automatic connection, select **YES**.

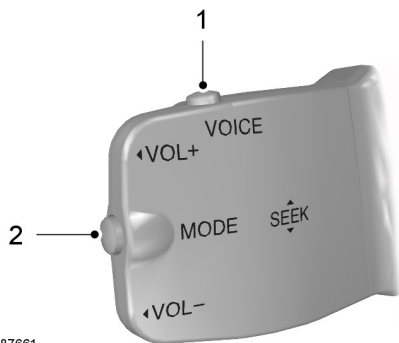
**Note:** *A phone call will be disconnected if the audio unit is switched off. If the ignition key is turned to the off position the phone call will remain in progress.*

# Telephone

## TELEPHONE CONTROLS

### Remote control

#### Voice and mode button



E87661

- 1 Voice button
- 2 Mode button

Incoming calls can be accepted by pressing the MODE button once. Press the button again to end the call.

## USING THE TELEPHONE - VEHICLES WITHOUT: NAVIGATION SYSTEM

This chapter describes the phone functions of the audio unit.

**Note:** Refer to your audio guide for details of the controls.

An active phone must be present.

Even if connected to the audio unit, your phone can still be used in the usual way.

**Note:** You can exit the phone menu by pressing any source button **CD**, **AM/FM** or **AUX**.

## Making a call

### Dialling a number using voice control

Phone numbers can be dialled using voice control. See **Telephone commands** (page 221).

### Dialling a number using the address book

You can access your phone address book via Bluetooth. The entries will appear in the unit display.

1. Press the **PHONE** or the call accept button.
2. Press the **MENU** button.
3. Keep pressing the **MENU** button until **PHONEBOOK** appears.
4. Press the seek buttons to select the desired phone number.

**Note:** Press and hold the seek button to skip to the next letter in the alphabet.

5. Press the **PHONE** or the call accept button to dial the selected phone number.

### Dialling a number using the address book - Sony radio

You can access your phone address book via Bluetooth. The entries will appear in the unit display.

1. Press the **PHONE** button.
2. Press the seek button until the phone book is shown.
3. Press the up/down arrow buttons to select the desired phone number.

**Note:** Press and hold the up/down arrow buttons to skip to the next letter in the alphabet.

4. Press the **PHONE** or the call accept button to dial the selected phone number.

# Telephone

## Dialling a number using the telephone keypad

If you have an audio unit with a telephone keypad (buttons 0-9, \* and #):

1. Press the call accept button. Press the **PHONE** button if you have a Sony radio.
2. Dial the number using the telephone keypad on the audio unit.
3. Press the call accept button.

**Note:** *If you enter an incorrect digit whilst entering a phone number, press the seek left button to erase the last digit. A long press will erase the complete string of digits.*

Press and hold **0** to enter a **+** digit.

## Ending a call

Calls can be ended by pressing the call reject button.

Audio units without a telephone keypad can also end a call by pressing either **PHONE**, **CD**, **AM/FM** or **ON/OFF**, or by pressing the **MODE** button on the remote control

## Redialling a number

1. Press the **PHONE** or the call accept button.
2. Press the **MENU** button.
3. Select the **CALL OUT** list or the **CALL IN** list. On some audio units, select the **MISSED**, **INCOMING** or **OUTGOING** calls list.

**Note:** *If the active phone does not provide a call out list, the last outgoing call number/entry can be redialled.*

4. Press the seek button on the audio unit.
5. Press the **PHONE** or the call accept button to dial the desired phone number.

## Redialling a number - Sony radio

1. Press the **PHONE** or the call accept button.
2. Press the seek button until the desired list is displayed.

**Note:** *If the active phone does not provide a call out list, the last outgoing call number/entry can be redialled.*

3. Press the up/down buttons to select the desired phone number.
4. Press the **PHONE** or the call accept button to dial the phone number.

## Redialling the last dialled number - Sony radio

1. Press the call accept button.
2. Press the call accept button a second time to dial the number.

## Receiving an incoming call

### Accepting an incoming call

Incoming calls can be accepted by pressing either the call accept button, the **PHONE** button or the **MODE** button on the remote control.

### Rejecting an incoming call

Incoming calls can be rejected by pressing the call reject button.

Audio units without a telephone keypad can also reject a call by pressing either **PHONE**, **CD**, **AM/FM** or **ON/OFF**.

## Receiving a second incoming call

**Note:** *The second incoming call function must be activated in your phone.*

If there is an incoming call whilst there is an ongoing call, a beep will be heard and you will have the option to end the active call and to accept the incoming call.

# Telephone

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## Accepting a second incoming call

Second incoming calls can be accepted by pressing either the call accept button, the **PHONE** button, or the **MODE** button on the remote control.

## Rejecting a second incoming call

Second incoming calls can be rejected by pressing the call reject button. Units without a telephone keypad can also reject a second incoming call by pressing the **CD** button, or the **AM/FM** button.

## Muting the microphone

During a call, it is possible to mute the microphone. Whilst muted, confirmation will appear in the display.

## Audio units with green call accept button

Press the call accept button. Press the button once again to turn this function off.

## Audio units without green call accept button

Press the seek up or down button. Press the button once again to turn this function off.

## Changing the active phone

**Note:** *Phones must be bonded to the system before they can be made active.*

## Using the station storage button

**Note:** *This process is only for audio units without a telephone keypad.*

1. Press the **PHONE** button on the audio unit.
2. Press the preset number required (using the station preset buttons 1 - 6).

## Using the audio unit menu

**Note:** *After bonding a phone to the system, this becomes the active phone.*

1. Press the **PHONE** or call accept button.
2. Press the **MENU** button on the audio unit.
3. Select the **ACTIVE PHONE** option on the audio unit.
4. Scroll through the different stored phones by using the seek buttons to display the bonded phones.
5. Press the **MENU** button to select the phone which is to be the active phone.

## Debonding a bonded phone

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

1. Press the **PHONE** or call accept button.
2. Press the **MENU** button on the audio unit.
3. Select the **DEBOND** option on the audio unit.
4. Scroll through the different phones by using the seek buttons and display the phone to be debonded.
5. Press the **MENU** button to select the phone which is to be debonded.

## Debonding a bonded phone - Sony radio

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

1. Press the **PHONE** button.
2. Press the up/down arrow buttons until you reach the **DEBOND** option.

# Telephone

3. Scroll through the different phones by using the seek buttons and display the phone to be debonded.
4. Press the OK button to be debond.

## USING THE TELEPHONE - VEHICLES WITH: NAVIGATION SYSTEM

This chapter describes the phone functions of the Navigation System.

**Note:** Refer to your *Navigation System guide for details of the controls*.

An active phone must be present.

Even if connected to the Navigation System, your phone can still be used in the usual way.

### Making a call

#### Dialling a number

Phone numbers can be dialled using voice control. See **Voice control** (page 211).

#### Ending a call

Calls can be ended by pressing either the **END** button, the **MODE** button on the remote switch or the **ON/OFF** button on the navigation system.

#### Redialling a number

1. Press the **PHONE** button on the unit.
2. Select **REDIAL**.

### Receiving an incoming call

#### Accepting an incoming call

Incoming calls can be accepted by pressing either the call accept button, the **MODE** button on the remote control, the **PHONE** button on the unit or by using the **ACCEPT** option in the menu.

#### Rejecting an incoming call

Incoming calls can be rejected by pressing either the call reject button, the **CD** or **AM/FM** buttons on the unit, or by using the **REJECT** option in the menu.

#### Receiving a second incoming call

**Note:** *The second incoming call function must be activated in your phone.*

If there is an incoming call, whilst there is an ongoing call, a beep will be heard and you will have the option to end the active call and to accept the incoming call.

#### Accepting a second incoming call

Second incoming calls can be accepted by pressing either the call accept button, the **MODE** button on the remote control, the **PHONE** button on the unit or by using the **ACCEPT** option in the menu.

**Note:** *This will cancel the ongoing call.*

#### Rejecting a second incoming call

Second incoming calls can be rejected by pressing either the call reject button, or one of the following buttons on the unit: **CD**, **AM/FM**.

### Muting the microphone

During a call, it is possible to mute the microphone. Whilst muted, confirmation will appear in the display.

#### SD navigation units

Press the mute button (symbol of a microphone with a line through it). Press the button once again to turn this function off.

#### CD navigation units

Press the microphone mute button. Press the button once again to turn this function off.

# Telephone

---

## Changing the active phone

**Note:** *Phones must be bonded to the system before they can be made active.*

**Note:** *After bonding a phone to the system, this becomes the active phone.*

1. Press the **PHONE** button on the unit.
2. Using the **BT SETTINGS** option in the menu, select the active phone from the list.

## Debonding a bonded phone

A bonded phone can be deleted from the system at any time, unless a phone call is in progress.

1. Press the **PHONE** button on the unit.
2. Select the **BT SETTINGS** option in the menu.
3. Select the **DEBOND** option in the menu.
4. Select the phone from the list.

# Voice control

## PRINCIPLE OF OPERATION

### CAUTION



Using the system with the engine off will drain the battery.

Voice recognition enables operation of the system without the need to divert your attention from the road ahead in order to change settings, or receive feedback from the system.

Whenever you issue one of the defined commands with the system active, the voice recognition system converts your command into a control signal for the system. Your inputs take the form of dialogues or commands. You are guided through these dialogues by announcements or questions.

Please familiarise yourself with the functions of the system before using voice recognition.

### Supported commands

The voice control system allows you to control the following vehicle functions:

- Bluetooth phone
- radio
- CD Player/CD Changer
- external device (USB)
- external device (iPod)
- automatic climate control
- navigation system - refer to separate navigation handbook).

### System response

As you work through a voice session the system will prompt you with a beep tone each time the system is ready to proceed.

Do not try to give any commands until the beep tone has been heard. The voice control system will repeat each spoken command back to you.

If you are not sure how to continue say "HELP" for assistance or "CANCEL" if you do not wish to continue.

The "HELP" function provides only a subset of the available voice commands. Detailed explanations of all possible voice commands can be found on the following pages.

### Voice commands

All voice commands should be given using a natural speaking voice, as if speaking to a passenger or on the phone. Your voice level should be dependant on the surrounding noise level inside or outside the vehicle but do not shout.

## USING VOICE CONTROL

### System operation

The order and content of the voice controls are given in the following lists. The tables show the sequence of user voice commands and system responses for each available function.

<> indicates a number or stored name tag to be inserted by the user.

### Short cuts

There are a number of voice command short cuts available, which allow you to control some vehicle features without having to follow the complete command menu. These are:

- Phone: CALL or DIAL NAME, DIAL NUMBER, and REDIAL.
- Phone: CALL FIRST NAME, LAST NAME at LOCATION. Example: Call Fred Bloggs at home.

# Voice control

- CD player or CD changer: DISC and TRACK.
- Automatic climate control: TEMPERATURE, AUTO MODE, DEFROSTING ON, DEMISTING ON, DEFROSTING OFF and DEMISTING OFF.
- Radio: TUNE NAME.
- External device (USB, iPod and SD card): TRACK.

## Start communicating with the system

Before you can start talking to the system you first have to press the **VOICE** or **MODE** button for each operation and wait until the system answers with a beep. See (page 211).

Press the button again to cancel the voice session.

## Name tag

The name tag functionality can support the phone, audio and navigation features by using the "STORE NAME" function. You can assign name tags to items such as favourite radio stations and personal phone contacts. See **Audio unit commands** (page 212). See **Telephone commands** (page 221).

- Store up to 20 name tags per function.
- The average recording time for each name tag is approximately 2-3 seconds.

## AUDIO UNIT COMMANDS

### CD Player

You can control playback directly by voice control.

### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"CD PLAYER"
"HELP"
"PLAY"
"TRACK"*
"SHUFFLE ALL"
"SHUFFLE FOLDER"***
"SHUFFLE OFF"
"REPEAT FOLDER"***

# Voice control

<b>"CD PLAYER"</b>
"REPEAT TRACK"
"REPEAT OFF"

\* Can be used as a shortcut.

\*\* Only available if the CD contains audio data files like MP3 or WMA.

## Track

You can choose a track on your CD directly.

Steps	User says	System answer
1	"CD PLAYER"	"CD PLAYER"
2	"TRACK"*	"TRACK NUMBER PLEASE"
3	"<a number between 1 and 99>"**	"TRACK <number>"

\* Can be used as a shortcut.

\*\* Additionally, numbers can be spoken as up to four single digits (for example "2", "4", "5" for track 245)

## Shuffle all

To set random playback.

Steps	User says	System answer
1	"CD PLAYER"	"CD PLAYER"
2	"SHUFFLE ALL"	

## CD Changer

### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

# Voice control

<b>"CD CHANGER"</b>
"HELP"
"PLAY"
"DISC"*
"TRACK"*
"SHUFFLE ALL"
"SHUFFLE CD"
"SHUFFLE FOLDER"***
"SHUFFLE OFF"
"REPEAT CD"
"REPEAT FOLDER"***
"REPEAT TRACK"
"REPEAT OFF"

\* Can be used as a shortcut.

\*\* Only available if the CD contains audio data files like MP3 or WMA.

## Disc

If you have a CD changer you can choose the disc number.

Steps	User says	System answer
1	"CD CHANGER"	"CD CHANGER"
2	"DISC"*	"DISC NUMBER PLEASE"
3	"<a number between 1 and 6>"	"DISC <number>"

\* Can be used as a shortcut.

## Track

You can choose a track on your CD directly.

# Voice control

Steps	User says	System answer
1	"CD CHANGER"	"CD CHANGER"
2	"TRACK"	"TRACK NUMBER PLEASE"
3	"<a number between 1 and 99>"**	"TRACK <number>"

\* Can be used as a shortcut.

\*\* Additionally, numbers can be spoken as up to four single digits (for example "2", "4", "5" for track 245)

## Shuffle CD

To set random playback within the CD contents.

Steps	User says	System answer
1	"CD CHANGER"	"CD CHANGER"
2	"SHUFFLE CD"	

## Radio

The radio voice commands support the functionality of the radio and allow you to tune radio stations by voice control.

## Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu.

"RADIO"
"HELP"
"AM"
"FM"
"TUNE NAME"*
"DELETE NAME"
"DELETE DIRECTORY"
"PLAY DIRECTORY"

# Voice control

<b>"RADIO"</b>
"STORE NAME"
"PLAY"

\* Can be used as a shortcut.

## Tune frequency

This function allows you to tune your radio by voice commands.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"AM"	"AM FREQUENCY PLEASE"
	"FM"	"FM FREQUENCY PLEASE"
3	"<frequency>"	"TUNE <frequency>"

\* The frequency may be entered in a variety of ways. Refer below for representative examples.

FM band: 87.5 - 108.0 in increments of 0.1

- "Eighty nine point nine" (89.9)
- "Ninety" (90.0)
- "One hundred point five" (100.5)
- "One zero one point one" (101.1)
- "One zero eight" (108.0)

- "Five thirty one" (531)
- "Nine hundred" (900)
- "Fourteen forty" (1440)
- "Fifteen zero three" (1503)
- "Ten eighty" (1080)

### Store name

AM/MW band: 531 - 1602 in increments of 9

If you have tuned a radio station, you can store it with a name in the directory.

AM/LW band: 153 - 281 in increments of 1

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"STORE NAME"	"STORE NAME" "NAME PLEASE"
3	"<name>"	"REPEAT NAME PLEASE"
4	"<name>"	"STORING NAME"

# Voice control

Steps	User says	System answer
		"<name> STORED"

## Tune name

This function allows you to call up a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"TUNE NAME"*	"NAME PLEASE"
3	"<name>"	"TUNE <name>"

\* Can be used as a shortcut.

## Delete name

This function allows you to delete a stored radio station.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE NAME"	"NAME PLEASE"
3	"<name>"	"DELETE <name>" "CONFIRM YES OR NO"
4	"YES"	"DELETED"
	"NO"	"COMMAND CANCELLED"

## Play directory

This function allows you to let the system tell you all of the stored radio stations.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"PLAY DIRECTORY"	"PLAY <DIRECTORY>"

# Voice control

## Delete directory

This function allows you to delete all stored radio stations at once.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"DELETE DIRECTORY"	"DELETE DIRECTORY" "CONFIRM YES OR NO"
3	"YES"	"RADIO DIRECTORY DELETED"
	"NO"	"COMMAND CANCELLED"

## Play

This function switches the audio source to the radio mode.

Steps	User says	System answer
1	"RADIO"	"RADIO"
2	"PLAY"	

## Auxiliary input

This function allows you to switch the audio source to the attached auxiliary input device.

Steps	User says	System answer
1	"EXTERNAL DEVICE"	"EXTERNAL DEVICE"
2	"LINE IN"	"LINE IN"

## External devices - USB

These voice commands support the functionality of an external USB device which may be connected to the audio unit.

## Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

# Voice control

---

<b>"EXTERNAL DEVICE", "USB"</b>
"HELP"
"PLAY"
"TRACK"
"PLAYLIST"*
"FOLDER"*
"SHUFFLE ALL"
"SHUFFLE FOLDER"
"SHUFFLE PLAYLIST"
"SHUFFLE OFF"
"REPEAT TRACK"
"REPEAT FOLDER"
"REPEAT OFF"

\* Can be used as a shortcut.

\*\* Playlists and folders activated by voice control must be assigned special filenames. See **General Information** (page 227).

## USB play

This function allows you to switch the audio source to the attached USB device.

Steps	User says	System answer
1	"EXTERNAL DEVICE"	"EXTERNAL DEVICE"
2	"USB"	"USB"
3	"PLAY"	

## USB Track

You can choose a track on your USB device directly.

# Voice control

Steps	User says	System answer
1	"EXTERNAL DEVICE"	"EXTERNAL DEVICE"
2	"USB"	"USB"
3	"TRACK"	"TRACK NUMBER PLEASE"
4	"<a number between 1 and 99>"*	"TRACK <number>"

\* Additionally, numbers can be spoken as up to four single digits (for example "2", "4", "5" for track 245)

## External devices - iPod

These voice commands support the functionality of an iPod which may be connected to the audio unit.

## Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

"EXTERNAL DEVICE", "IPOD"
"HELP"
"PLAY"
"TRACK"*
"PLAYLIST"**
"SHUFFLE ALL"
"SHUFFLE PLAYLIST"
"SHUFFLE OFF"
"REPEAT TRACK"
"REPEAT OFF"

\* Can be used as a shortcut.

\*\* Playlists activated by voice control must be assigned special filenames. See **General Information** (page 227).

## iPod Track

You can choose a track off the all titles list of your iPod directly.

# Voice control

Steps	User says	System answer
1	"EXTERNAL DEVICE"	"EXTERNAL DEVICE"
2	"IPOD"	"IPOD"
3	"TRACK"	"TRACK NUMBER PLEASE"
4	"<a number between 1 and 99>"**	"TRACK <number>"

\* Can be used as a shortcut.

\*\* Additionally, numbers can be spoken as up to five single digits (for example "5", "2", "4", "5", "3" for track 52453), to a limit of 65535.

## iPod playlist

You can choose a playlist from your iPod directly.

Steps	User says	System answer
1	"EXTERNAL DEVICE"	"EXTERNAL DEVICE"
2	"IPOD"	"IPOD"
3	"PLAYLIST"*	"PLAYLIST NUMBER PLEASE"
4	"<a number between 1 and 10>"	"PLAYLIST <number>"

\* Playlists activated by voice control must be assigned special filenames. See **General Information** (page 227).

## TELEPHONE COMMANDS

### Phone

Your phone system allows you to create an additional phonebook. The stored entries can be dialled by voice control. Phone numbers stored by using voice control are stored on the vehicle system and not in your phone.

### Overview

The overview below shows the available voice commands. The following lists will give further information about the complete command menu in selected examples.

# Voice control

<b>"PHONE"</b>
"HELP"
"MOBILE NAME"*
"DIAL NUMBER"*
"DIAL NAME"*
"DELETE NAME"
"DELETE DIRECTORY"
"PLAY DIRECTORY"
"STORE NAME"
"REDIAL"*
"ACCEPT CALLS"
"REJECT CALLS"

\* Can be used as a shortcut.

## Phone functions

### Dial number

Phone numbers can be dialled after giving the name tag voice command.

<b>Steps</b>	<b>User says</b>	<b>System answer</b>
1	"PHONE"	"PHONE"
2	"DIAL NUMBER"*	"NUMBER PLEASE"
3	"<phone number>"	"<phone number> CONTINUE?"
4	"DIAL"	"DIALLING"
	"CORRECTION"	"<repeat last part of number> CONTINUE?"

\* Can be used as a shortcut.

# Voice control

## Dial name

Phone numbers can be dialled after giving the name tag voice command.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DIAL NAME"*	"NAME PLEASE"
3	"<name>"	"DIAL <name>" "CONFIRM YES OR NO"
4	"YES"	"DIALLING"
	"NO"	"COMMAND CANCELLED"

\* Can be used as a shortcut.

## Redial

This function allows you to redial the last dialled phone number.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"REDIAL"	"REDIAL" "CONFIRM YES OR NO"
3	"YES"	"DIALLING"
	"NO"	"COMMAND CANCELLED"

\* Can be used as a shortcut.

## Mobile name

This function allows you to access phone numbers stored with a name tag in your mobile phone.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"MOBILE NAME"*	"MOBILE NAME" "<phone dependent dialogue>"

\* Can be used as a shortcut.

# Voice control

## DTMF (Tone dialling)

This function transfers spoken numbers into DTMF tones. For example, to make a remote enquiry to your home answering machine or to enter a PIN number etc.

**Note:** DTMF can only be used during an ongoing call. Operate the VOICE button and wait for the system prompt.

Can only be used with vehicles installed with a dedicated VOICE button.

Steps	User says	System answer
1		"NUMBER PLEASE"
2	"<numbers 1 to 9, zero, hash, star>"	

## Create a phonebook

### Store name

New entries can be stored with the "STORE NAME" command. This feature can be used to dial a number by calling up the name instead of the full phone number.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"STORE NAME"	"STORE NAME" "NAME PLEASE"
3	"<name>"	"REPEAT NAME PLEASE"
4	"<name>"	"STORING NAME" "<name> STORED" "NUMBER PLEASE"
5	"<phone number>"	"<phone number>"
6	"STORE"	"STORING NUMBER" "<phone number>" "NUMBER STORED"

### Delete name

Stored names can also be deleted from the directory.

# Voice control

---

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DELETE NAME"	"NAME PLEASE"
3	"<name>"	"DELETE <name>" "CONFIRM YES OR NO"
4	"YES"	"<name> DELETED"
	"NO"	"COMMAND CANCELLED"

## Play directory

Use this function to let the system tell you all stored entries.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"PLAY DIRECTORY"	"PLAY DIRECTORY"

## Delete directory

This function allows you to delete all entries in one go.

Steps	User says	System answer
1	"PHONE"	"PHONE"
2	"DELETE DIRECTORY"	"DELETE DIRECTORY" "CONFIRM YES OR NO"
3	"YES"	"DIRECTORY DELETED"
	"NO"	"COMMAND CANCELLED"

## Main settings

### Reject calls

Calls can be set to be automatically rejected using voice control.

# Voice control

---






<b>Steps</b>	<b>User says</b>	<b>System answer</b>
1	"PHONE"	"PHONE"
2	"REJECT CALLS"	"REJECT CALLS"
	"ACCEPT CALLS"*	"ACCEPT CALLS"

\* use this command to turn the reject mode off

# Connectivity

## GENERAL INFORMATION

### CAUTIONS

-  Take care when handling external devices with exposed electrical connectors (such as the USB plug). Always replace the protective cap/shield when possible. There may be a risk of electrostatic discharge causing damage to the device.
-  Do not touch or handle the USB socket in the vehicle. Cover the socket when not in use.
-  Only use USB Mass-Storage device compliant devices.
-  Always switch your audio unit to a different source (for example the radio) before unplugging the USB device.
-  Do not install or connect USB hubs or splitters.

**Note:** *The system is only designed to recognize and read suitable audio files from a USB device that conforms to the USB Mass-Storage device class or an iPod. Not all available USB devices can be guaranteed to function with the system.*

**Note:** *It is possible to connect compatible devices with a trailing USB lead as well as those that plug into the vehicle USB socket directly (for example USB memory sticks and pen drives).*

**Note:** *Some USB devices with a higher power consumption may not be compatible (for example some larger hard drives).*

**Note:** *Access time to read the files on the external device will vary depending upon factors such as the file structure, size and device content.*

The system supports a range of external devices, to fully integrate with your audio unit via the USB and auxiliary input sockets. Once connected, control of the external device is possible via the audio unit.

A list of typical compatible devices are shown below:

- USB memory sticks
- USB portable hard drives
- Some MP3 players with USB connection
- iPod media players (refer to **www.ford-mobile-connectivity.com** for latest compatibility list).

The system is USB 2.0 full speed compatible, USB 1.1 host compliant and supports FAT 16/32 file systems.

### Information on audio file structures for external devices

#### USB

Create only a single partition on the USB device.

We recommend that you put MP3 files in a folder.

If playlists are created, they must contain correct file paths referenced to the USB device. It is recommended to create the playlist after the audio files have been transferred to the USB device.

Playlists must be created in .m3u format.

Audio files must be in .mp3 format.

Do not exceed the following limits:

- 1000 items per folder (files, folders and playlists)
- 5000 folders per USB device (including playlists)
- 8 subfolder levels.

# Connectivity

To enable voice control for custom playlists and folders, follow the procedure below:

- Create folders named with the structure "**Ford<\*>**" where <\*> is a number 1-10. For example "**Ford3**" without an extension.
- Create playlists named with the structure "**Ford<\*>.m3u**" where <\*> is a number 1-10. For example "**Ford5.m3u**" without any space between "**Ford**" and the number.

Thereafter, custom folders and playlists will be selectable with voice control. See **Audio unit commands** (page 212).

## iPod

To enable voice control for custom playlists, create playlists named with the structure "**Ford<\*>**" where <\*> is a number 1-10. For example "**Ford7**" without any space between "**Ford**" and the number.

Thereafter, playlists will be selectable with voice control. See **Audio unit commands** (page 212).

## CONNECTING AN EXTERNAL DEVICE

### WARNING



Make sure the external device is securely mounted within the vehicle, and that trailing connections do not obstruct any of the driving controls.

External devices may be connected using the auxiliary input socket and the USB port. See **Auxiliary Input Socket** (page 80). See **USB Port** (page 80).

## Connection

Plug in the device, and if necessary secure it to prevent movement within the vehicle.

### Connecting an iPod

For optimum convenience and audio quality, we recommend that you purchase a dedicated single connection lead available from your dealer.

Alternatively, it is possible to connect your iPod using the standard iPod USB cable and a separate 3.5mm audio jack lead. If using this method preset the iPod volume to maximum and turn off any equalizer settings before making the connections:

- Connect the headphone output of the iPod to the AUX IN socket.
- Connect the USB cable from the iPod to the vehicle USB socket.

## CONNECTING AN EXTERNAL DEVICE - VEHICLES WITH: BLUETOOTH

### Connecting a Bluetooth audio device

#### CAUTION



As various standards exist, manufacturers are able to implement a variety of profiles in their Bluetooth devices. Because of this, an incompatibility can occur between the Bluetooth device and the system, which in some cases may limit system functionality. To avoid this situation, only recommended devices should be used.

Please visit the website [www.ford-mobile-connectivity.com](http://www.ford-mobile-connectivity.com) for full details.

# Connectivity

## Bonding the device

**Note:** Some audio and navigation units have a separate Bluetooth audio menu. Use this to access setup and control.

To connect the device to the system follow the same procedure as for Bluetooth hands free phones. See **Bluetooth setup** (page 205).

## Operating the device

Select Bluetooth audio as the active source.

Tracks can be accessed by skipping forwards and backwards using the steering wheel controls, or directly from the audio unit controls.

## USING A USB DEVICE

Various icons are used to identify types of audio file, folders etc.



USB device is the active source



Folder



Playlist



Album



Artist



Filename



Track title



Information not available

## Sony radio

### Operation

Select the USB device as the audio source by repeatedly pressing the **CD/AUX** button until USB appears in the display. After first connecting the USB device, the first track within the first folder will start to play automatically. Subsequently, following audio source switching, the position of playback on the USB device is remembered.

To browse the device contents, press the up/down arrow key or the OK button once.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the folder view.
- ">" after an entry indicates a further level down is readable (for example a folder named after an album, with individual album tracks within that folder).
- "<" before the list indicates that a further level up is readable.
- Icons to the left of track/folder text indicate the type of file/folder. Refer to the list for an explanation of these icons.

To navigate the USB device contents, use the up/down arrow keys to scroll through lists, and the left/right keys to move up or down within the folder hierarchy. Once your desired track, playlist or folder is highlighted, press the OK button to select playback.

**Note:** If you wish to jump to the top level of the USB device contents, press and hold the left arrow key.

# Connectivity

---

## Audio control

Press the left and right arrow keys to skip backwards and forwards through tracks.

Press and hold the left/right arrow keys to enable fast rewind/fast forward through track content.

Press the up/down arrow key or the OK button to browse the device contents.

Press the MENU key to enter the USB menu. It is possible to enable shuffle and repeat functions here with respect to folders and playlists.

Press the SCAN button to scan the whole device, current folder or a playlist if it is in operation.

Press the **INFO** button to display the following:

- filename
- title
- artist
- album
- track number and playing time.

Repeated button presses will scroll through these displays.

## CD Navigation units

### Operation

Select the USB device as the audio source by pressing the **CD/AUX** button until DEVICES appears in the display. Select DEVICES and then select USB from the available device list. After first connecting the USB device, the first track within the first folder will start to play automatically. Subsequently, following audio source switching, the position of playback on the USB device is remembered.

To browse the device contents, press the **SELECT** button once.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the folder view.
- ">" after an entry indicates a further level down is readable (for example a folder named after an album, with individual album tracks within that folder).
- "<" to the left hand side of the display indicates that a further level up is readable.
- Icons to the left of track/folder text indicate the type of file/folder. Refer to the list for an explanation of these icons.

To navigate the USB device contents, use the rotary scroll/select button to browse through lists. Push the button to expand the contents within the highlighted playlist or folder, or to commence playback of a particular track. Press **ESC** to go up one level.

## Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks.

Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Rotate or press the **SELECT** button to browse the device contents.

Press SHUFFLE or REPEAT buttons to enable shuffle and repeat functions with respect to folders and playlists. Different options may appear depending upon whether or not a playlist is in operation.

Press the SCAN button to scan the current playlist if it is in operation, or the complete USB device or folder.

# Connectivity

Press the **INFO** button to display the following:

- filename
- title
- artist
- album
- track number and playing time.

## SD Navigation units

### Operation

Select the USB device as the audio source by pressing the **CD/AUX** button until the USB button appears to the left of the display. Select USB from the available device list.

**Note:** *Some devices may be shown but not selectable, depending if the device is connected or not.*

After first connecting the USB device, the first track within the first folder will start to play automatically. Subsequently, following audio source switching, the position of playback on the USB device is remembered.

To browse the device contents, press the scroll up or down arrow button.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the folder view.
- ">" after an entry indicates a further level down is readable (for example a folder named after an album, with individual album tracks within that folder).

- "<" to the left hand side of the display indicates that a further level up is readable.
- Icons to the left of track/folder text indicate the type of file/folder. Refer to the list for an explanation of these icons.

To navigate the USB device contents, use the scroll buttons to browse through lists. Push the button to expand the contents within the highlighted playlist or folder, or to commence playback of a particular track. Press the left arrow key to go up one level.

### Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks.

Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Press the scroll bar arrow keys to browse the device contents.

Press SHUFFLE or REPEAT buttons to enable shuffle and repeat functions with respect to folders and playlists.

Press the SCAN button to scan the current playlist if it is in operation, or the complete USB device or folder.

Press the **INFO** button to display the following:

- filename
- title
- artist
- album
- track number and playing time.

## USING AN IPOD

Various icons are used to identify types of audio file, folders etc.

# Connectivity



iPod is the active source



iPod playlist



iPod artist



iPod album



iPod genre



iPod song



iPod generic category



iPod generic media file

## Sony radio

### Operation

Connect the iPod. See **Connecting an external device** (page 228).

Select the iPod as the audio source by repeatedly pressing the **CD/AUX** button until iPod appears in the display.

The iPod menu list for browsing contents will be available through the radio display. Navigation of the contents follows the same principles as for iPod standalone use (for example search by artist, title, etc.). To browse the iPod contents, press the up/down arrow key or the OK button once.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the list view.
- ">" after an entry indicates a further level down is readable (for example all albums by a particular artist).
- "<" before the list indicates that a further level up is readable.
- An icon on the left side indicates the type of the currently displayed list (for example list of albums). Refer to the list for an explanation of these icons.

To navigate the iPod contents, use the up/down arrow keys to scroll through lists, and the left/right keys to move up or down within the hierarchy. Once your desired track, playlist, album, artist or genre is highlighted, press the OK button to select playback.

**Note:** *If you wish to jump to the top level of the iPod contents, press and hold the left arrow key.*

### Audio control

Press the left and right arrow keys to skip backwards and forwards through tracks.

Press and hold the left/right arrow keys to enable fast rewind/fast forward through track content.

Press the up/down arrow key or the OK button to browse the iPod contents.

Press the **MENU** key to enter the iPod menu. It is possible to enable shuffle and repeat functions here. It is also possible to enable the iPod "Shuffle songs" option directly from the top level.

Press the **SCAN** button to scan the currently selected tracks.

# Connectivity

Press the **INFO** button to display the following:

- title
- artist
- track number and playing time.

Repeated button presses will scroll through these displays.

## CD Navigation units

### Operation

Connect the iPod. See **Connecting an external device** (page 228).

Select the iPod as the audio source by pressing the **CD/AUX** button until **DEVICES** appears in the display. Select **DEVICES** and then select iPod from the available device list.

The iPod menu list for browsing contents will be available through the display. Navigation of the contents follows the same principles as for iPod standalone use (for example search by artist, title, etc.). To browse the iPod contents, press the **SELECT** button once.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the list view.
- ">" after an entry indicates a further level down is readable (for example all albums by a particular artist).
- "<" before the list indicates that a further level up is readable.
- An icon on the left side indicates the type of the currently displayed list (for example list of albums). Refer to the list for an explanation of these icons.

To navigate the iPod contents, use the rotary scroll/select button to browse through lists. Push the button to expand the contents within the highlighted playlist, album, artist, genre or to commence playback of a particular track. Press **ESC** to go up one level.

### Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks.

Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Rotate or press the **SELECT** button to browse the iPod contents.

Press the **MENU** key to enter the iPod menu. It is possible to enable shuffle and repeat functions here. It is also possible to enable the iPod "Shuffle songs" option directly from the top level.

Press the **SCAN** button to scan the currently selected tracks.

Press the **INFO** button to display the following:

- title
- artist
- track number and playing time.

## SD Navigation units

### Operation

Connect the iPod. See **Connecting an external device** (page 228).

Select the iPod as the audio source by pressing the **CD/AUX** button until the iPod button appears to the left of the display. Select iPod from the available device list.

**Note:** Some devices may be shown but not selectable, depending if the device is connected or not.

# Connectivity

---

The iPod menu list for browsing contents will be available through the display. Navigation of the contents follows the same principles as for iPod standalone use (for example search by artist, title, etc.). To browse the iPod contents, press the scroll up or down arrow button.

The display will show the track information, together with other important information described below:

- A vertical scroll bar on the right side of the display shows the current position of the list view.
- ">" after an entry indicates a further level down is readable (for example all albums by a particular artist).
- "<" before the list indicates that a further level up is readable.
- An icon on the left side indicates the type of the currently displayed list (for example list of albums). Refer to the list for an explanation of these icons.

To navigate the iPod contents, use the scroll buttons to browse through lists. Push the button to expand the contents within the highlighted playlist, album, artist, genre or to commence playback of a particular track. Press the left arrow key to go up one level.

## Audio control

Press the **SEEK** up and down keys to skip backwards and forwards through tracks.

Press and hold the **SEEK** keys to enable fast rewind/fast forward through track content.

Press the scroll bar arrow keys to browse the iPod contents.

Press the MENU key to enter the iPod menu. It is possible to enable shuffle and repeat functions here. It is also possible to enable the iPod "Shuffle songs" option directly from the top level.

Press the SCAN button to scan the currently selected tracks.

Press the **INFO** button to display the following:

- title
- artist
- track number and playing time.

# Appendices

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## TYPE APPROVALS

### FCC/INDUSTRY CANADA NOTICE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: WJLRX-42

IC: 7847A-RX42

Changes or modifications to your device not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.

### RX-42 - declaration of conformity

We, the party responsible for compliance, declare under our sole responsibility that the Handset Integration product RX-42 is in conformity with the provisions of the following Council Directive: 1999/5/EC. A copy of the Declaration of Conformity can be found at:

[www.novero.com/declaration\\_of\\_conformity](http://www.novero.com/declaration_of_conformity)

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## ELECTROMAGNETIC COMPATIBILITY

### WARNINGS



Your vehicle has been tested and certified to legislations relating to electromagnetic compatibility (72/245/EEC, UN ECE Regulation 10 or other applicable local requirements). It is your responsibility to ensure that any equipment you have fitted complies with applicable local legislations. Have any equipment fitted by properly trained technicians.



Radio frequency (RF) transmitter equipment (e.g. cellular telephones, amateur radio transmitters etc.) may only be fitted to your vehicle if they comply with the parameters shown in the table below. There are no special provisions or conditions for installations or use.



Do not mount any transceiver, microphones, speakers, or any other item in the deployment path of the airbag system.



Do not fasten antenna cables to original vehicle wiring, fuel pipes and brake pipes.

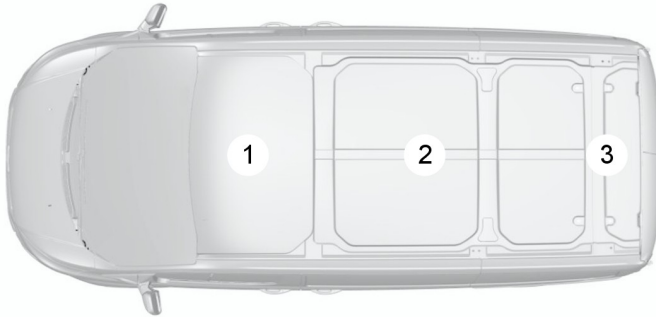


Keep antenna and power cables at least 100mm from any electronic modules and airbags.

---

**Note:** *Only fit antennas in the positions shown to the roof of your vehicle.*

# Appendices



E100566

Frequency Band MHz	Maximum output power Watt (Peak RMS)	Antenna Positions
1 – 30	50 W	1, 2, 3
30 – 54	50 W	1, 2, 3
68 – 87.5	50 W	1, 2, 3
142 – 176	50 W	1, 2, 3
380 – 512	50 W	1, 2, 3
806 – 940	10 W	1, 2, 3
1200 – 1400	10 W	1, 2, 3
1710 – 1885	10 W	1, 2, 3
1885 – 2025	10 W	1, 2, 3

**Note:** After the installation of RF transmitters, check for disturbances from and to all electrical equipment in the vehicle, both in the standby and transmit modes.

Check all electrical equipment:

- with the ignition **ON**
- with the engine running
- during a road test at various speeds.

Check that electromagnetic fields generated inside the vehicle cabin by the transmitter installed do not exceed applicable human exposure requirements.

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